

SOCIAL SCIENCE REVIEW ARCHIVES

ISSN Online: 3006-4708
ISSN Print: 3006-4694

https://policyjournalofms.com

Influence of AI and Digital Media Trends, Algorithms and Big Data on Agenda Setting and Narrative Building of Media Students: A Case Study of Universities in Islamabad

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DOI: https://doi.org/10.70670/sra.v3i2.621

Abstract

The purpose of this research is to survey the influence of AI and Digital Media trends, algorithms and bigdata on media studies students in Islamabad Universities including NUST, NUML, AIOU, FAUST, FJWU and Bahria University while analysing shift in Agenda Setting and narrative building. Two research questions and three research hypotheses led the study. Uses and gratification theory is used in this deductive research. To accomplish this, Quantitative and the descriptive survey research design is employed. The study focused on undergraduate, masters and doctoral students of Media studies, Mass Communication and Journalism in Islamabad Universities. The stratified sampling technique is utilized to select a sample of 200 students. Likert Type Rating Scale Questionnaire is employed to assemble data from the students. Descriptive statistics of male and female counts and percentage is utilized to scrutinize the demographic statistics. The study's conclusions shed light on how new technologies particularly artificial intelligence (AI), digital media trends, algorithms, and big data are changing the theoretical and practical frameworks that media students in Islamabad use to set agendas and create stories. The study's local focus offers contextually pertinent insights into how Pakistani media students understand and assimilate worldwide digital trends. Research findings revealed that Pakistan's distinct cultural, political, and economic characteristics such as differences in internet access, laws governing the media, and sociopolitical sensitivities modify the impact of artificial intelligence and digital trends in subtle ways. Through their narrative practices, students actively negotiate, adapt, and occasionally oppose the forces of digital influence rather than being passive recipients of it.

Keywords: AI, Digital Media, Trends, Algorithms, Bigdata, Agenda Setting, Narrative Building, Media Students

Introduction

This specific research study aims to survey the influence of AI and Digital Media trends, algorithms and bigdata on media studies students in Islamabad Universities while analysing shift in Agenda Setting and narrative building. In this modern era of information explosion as a result of worldwide tech competition especially among US-China in Chat GPT and DeepSeeks forms, Media students in the capital of Pakistan are utilizing them in different intensities for different purposes in different ways and it has reached high levels. The Digital media and AI websites,

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applications, and plat forms for them are increasing every passing day. This explosion or expansion of digital media and AI has led to extend the use of digital media and AI by the students. The researcher will attempt to find the relationship between the given variables and the influence of AI and Digital Media trends, algorithms and bigdata on media studies students in Islamabad Universities while analysing shift in Agenda Setting and narrative building.

Background Terms Definitions:

Artificial intelligence: AI is technology that enables computers and machines to simulate human learning, comprehension, problem solving, decision making, creativity and autonomy. (Cole Stryker, 2024)

Digital Media: Unlike traditional media, digital media is transmitted as digital data, which at its simplest involves digital cables or satellites sending binary signals — 0s and 1s — to devices that translate them into audio, video, graphics, text, and more. Anytime you use your computer, tablet, or cellphone, opening web-based systems and apps, you're consuming digital media. Digital media might come in the form of videos, articles, advertisements, music, podcasts, audiobooks, virtual reality, or digital art. (Maryville, 2020)

Digital media can be defined as "digitized content that can be transmitted over the internet or computer networks" (Sikarwar, 2016).

Trends: Social media trends refer to the constantly changing behaviors and topics that are popular on social media. (Social Bee, 2019)

Algorithms: A social media algorithm is a set of computational rules and procedures used by social media platforms to sort, prioritize, and deliver content to users. (Emplifi, 2020)

Big data: It refers to extremely large and complex data sets that cannot be easily managed or analyzed with traditional data processing tools, particularly spreadsheets. (Oracle, 2023)

Agenda setting: It is an idea that what the public thinks about is set by the media. The agenda setting theory was first introduced. (Dr. Maxwell McCombs)

Media Narrative: A media narrative is the overarching story or theme that is constructed by media outlets to shape public perception and understanding of events or issues.

Statement of the problem

These days, media students are heavily exposed to AI and digital media. For media students, the use of AI and digital media has both beneficial and detrimental implications. Students studying media may be exposed to false information and fake news, deepfakes created by AI, inaccurate big data, and pre-planned phony advertising campaigns that raise algorithms and produce phony data and content. These two opposing viewpoints—the positive (head) and the negative (tale)—also rely on media students. For certain media students, what is beneficial could be detrimental. These days, media students are heavily exposed to AI and digital media. For media students, the use of AI and digital media has both beneficial and detrimental implications. Students studying media may be exposed to false information and fake news, deepfakes created by AI, inaccurate big data, and pre-planned phony advertising campaigns that raise algorithms and produce phony data and content. These two opposing viewpoints—the positive (head) and the negative (tale)—also rely on media students. For certain media students, what is beneficial could be detrimental.

Objectives

1. To determine portrayal, utilization and absorption of the influence of AI and Digital Media trends, algorithms and bigdata on media studies students in Islamabad Universities while analysing shift in Agenda Setting and narrative building.

- 2. To find out by what Methodologies of AI and Digital Media use among Media Students.
- 3. To find out the theoretical and practical contribution of Digital Media and AI trends, algorithms and bigdata for media pupils enrolled in Islamabad Universities.
- 4. To seek the exposure of media students towards the AI and its effects.

Research questions

- i. Do Media students use AI & Digital Media?
- ii. Is there any association between using AI Digital Media and Agenda Setting Narrative Building?
- iii. To check the intensity of AI and Digital Media Influence on Media Students.
- iv. To find out the dimensions in which AI and digital media can cultivate media students narratives and agenda.

Significance of the study

This study advances academic theory and research as well as practical applications in the media sector. This is a unique study that reveals the impact of integrating computational communication in academia and the media industry. The knowledge of media students, educators, professors, AI professionals, big data specialists, agenda-setting editors, and policy developers is greatly aided by this research. The study helps professionals, experts, and media students understand all the potential impacts of digital media and artificial intelligence on media students' agenda-setting and narrative-building. For specialists and professionals in digital media, artificial intelligence, policy formulation, agenda setting, and narrative construction, this type of research is crucial since it will inform them of the potential advantages and disadvantages of digital media and AI. This study gives university-level media students the ability to understand the benefits and drawbacks of using digital networks and artificial intelligence in their coursework and professional lives. Media In the upcoming chapters, educators, professionals, experts, and students will also be able to learn about the various digital media platforms and the integration and influence of artificial intelligence platforms. For students, instructors, and researchers working on related projects, this study provides essential information. The knowledge of people who are already familiar with digital media, artificial intelligence, big data, algorithms, and narrative construction is examined in this study.

Hypothesis

- 1. Media students in academia and industry benefit from the use of AI and digital media.
- 2. AI and digital media are used more frequently, which saves time and wins news races.
- 3. Students' academic performance is positively impacted by using AI websites.

Limitations and delimitations

This study is limited to the time restraints, data collected and resources required preceding this research procedure.

Literature Review

Data visualization is another application of artificial intelligence. Since AI is merely a tool to create faster, more accurate images, there isn't much harm when the source of the data is acknowledged and there are no restrictions on its use (media frequently use publically available data). (Nasir et al., 2024)

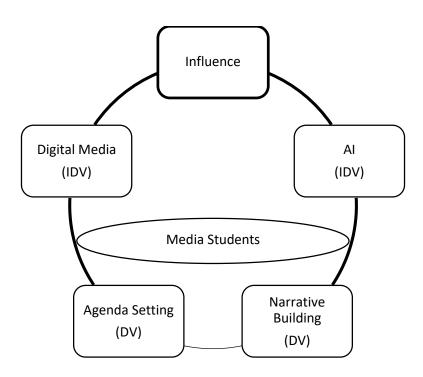
The tool is worth mentioning, if not required. Assigning the designer of the artificial intelligence system complete or shared authorship of exploitation rights is currently more than just a possibility. (Hussain, 2022)

The principles of copyright law state that whenever there is adequate human involvement and skill in the creation of a derivative work, the newly produced output should be assigned in the name of the author or the legal entity (usually a company) that organized and created the collective work, including media. In general, there are no significant legal issues with any artificial intelligence-based data analysis techniques. (Munir, 2018)

We believe that future artificial intelligence training materials for journalists should include modules or courses on copyright, intellectual property, and writers' rights (Lopezosa et al., 2023). It's a widely held belief that artificial intelligence can be used to avoid monotonous, mundane jobs like transcription. Other features can be added, such as automatic headline recommendations, which are built into Content Management Systems (CMS) that are licensed to media companies whose output is their intellectual property. Later on, headlines can also be tried. In order to adjust their professional practices to artificial intelligence, certain media have begun revising their style guides. As usual, Wired has been among the first, and in 20232, a Spanish-language version was also released. The completely automatic creation of news from raw data is a completely different topic. Up until now, it has been employed rather effectively for news of the day that is primarily based on data, such corporate earnings, sports outcomes, or election results—areas where Associated Press, for example, specifically uses AI. Additionally, it can assist in creating lists of video shots or summaries. At least since 2014, it has become a fairly standard practice in the media. However, artificial intelligence has demonstrated its limitations for more intricate procedures. For instance, when numerous errors were found, Gannett decided to stop utilizing artificial intelligence to create sports features in September 2023. One of the primary tasks that scientific and professional literature have identified as being especially helpful to journalists is fact-checking news content. This is an essential task that should be carried out throughout the entire process, but the results have been mixed thus far because sources are not always correctly identified (Cuartielles

Model

et al., 2023).



Variables

Independent Variables (IVs):

- 1. Artificial Intelligence (AI)
- 2. Digital Media Trends
- 3. Algorithms
- 4. Big Data

Dependent Variables (DVs):

- 1. Agenda Setting of Media Students
- 2. Narrative Building of Media Students

Control Variables (Contextual Factors):

1. University Students (Media Students in Islamabad Universities)

Methodology

Topic:

Influence of AI and Digital Media Trends, Algorithms and Big Data on Agenda Setting and Narrative Building of Media Students: A Case Study of Universities in Islamabad

Research design:

This study is based on survey. The researcher design a set of questionnaire related to the research study. The cross-sectional study was conducted as per the requirement of this research.

Population of the study:

The Media Students of Islamabad Universities Including NUST, NUML, AIOU, FAUST, FJWU and Bahria University are the population of the study because of less time. It includes males and females of all media departments.

Sample:

From this research population of Media Students of Islamabad Universities, The sample of 200 pupils is selected for this study from whole population.

Data Collection:

To ensure validity and reliability of the data to maximum level, a well thought out questionnaire is prepared by using Likert Scale. The questionnaire distributed among the media students of Islamabad Universities.

Data Analysis:

After data collection the data is analysed through simple statistical method. The data is operated through simple statistical method and male/female count and percentages is made on the basis of data inserted. Data is analysed through SPSS 22 and then it was changed into below simple statistical method for easy understanding of the readers, scholars and policy makers.

Data Analysis
A= agree,
SA= strongly agree,
D= disagree,
SD= strongly disagree.

Section 1: AI and Digital Media Trends

1. How often do you use AI tools (e.g., ChatGPT, MidJourney) for academic or creative purposes?

| | | 1 | ı | | | |
|----------------|---------------------|-------------|---|-----------|--|-------------|
| Gender | | Daily | Twice or More than Twice a Day | Weekly | Twice or More than Twice a Week | Total |
| Male | Count Percentage | 24 12% | 48 24% | 08 04% | 20 10% | 100 50% |
| Female | Count Percentage | 25 12.5% | 45 22.5% | 12 06% | 18 | 100 50% |
| Total Percenta | Count | 49 24.5% | 93 46.5% | 20 10% | 38 19% | 200 100% |

Discussion: Approximately half of the media students use AI tools twice or more than twice a day for both academic and creative purposes while rest of the students uses AI tools Daily, weekly and twice or more than twice a week for creative and academic purposes.

2. To what extent do agree or disagree that digital media trends (e.g., short-form videos, memes) influence your content creation process?

| Gender | | A | SA | D | SD | Total |
|--------|------------|-----|-----|-----|-----|-------|
| Male | Count | 20 | 60 | 14 | 06 | 100 |
| | Percentage | 10% | 30% | 07% | 03% | 50% |

| Female Count | 18 | 62 | 08 | 12 | 100 |
|--------------|-----|-----|-----|-----|------|
| Percentage | 09% | 31% | 04% | 06% | 50% |
| Total Count | 28 | 122 | 22 | 20 | 200 |
| Percentage | 14% | 61% | 11% | 10% | 100% |

Discussion: Pupils agrees and strongly agrees that digital media trends influence their content creation process while a small portion of the population is agreed upon the point that social media trends cannot influence their content creation process.

3. Do you agree or decline, AI-generated content is a reliable source of information for media students?

| Gender | | A | SA | D | SD | Total |
|----------|------------|-----|-----|-----|-----|-------|
| Male | Count | 16 | 76 | 06 | 02 | 100 |
| | Percentage | 08% | 33% | 03% | 01% | 50% |
| Female | Count | 18 | 74 | 04 | 04 | 100 |
| | Percentage | 09% | 32% | 02% | 02% | 50% |
| Total | Count | 34 | 150 | 10 | 06 | 200 |
| Percenta | ige | 17% | 75% | 05% | 03% | 100% |

Discussion: Unfortunately a large population of the study is agreed upon the stance that AI generated content is a reliable source of information for media students.

3. The rapid evolution of digital media trends impacted your ability to stay updated?

| Gender | | A | SA | D | SD | Total |
|--------|------------|-----|-----|------|------|-------|
| Male | Count | 48 | 56 | 03 | 03 | 100 |
| | Percentage | 24% | 27% | 1.5% | 1.5% | 50% |

| Female Count Percentage | 32 16% | 62 31% | 04 02% | 02 01% | 100 50% |
|-------------------------|-----------|------------|------------|------------|-------------|
| Total Count Percentage | 80 | 118 59% | 07 3.5% | 05 2.5% | 350 100% |

Discussion: 59% students of journalism departments strongly agrees that the rapid evolution of digital media trends impacted their ability to stay updated, while only 2.5% is strongly disagreed upon the above statement.

5. Do you feel that AI tools have improved your efficiency in content production?

| Gender | | A | SA | D | SD | Total |
|----------|------------|-----|-----|------|------|-------|
| Male | Count | 26 | 72 | 02 | 00 | 100 |
| | Percentage | 13% | 36% | 01% | 00% | 50% |
| Female | Count | 30 | 68 | 01 | 01 | 100 |
| | Percentage | 15% | 34% | 0.5% | 0.5% | 50% |
| Total | Count | 56 | 140 | 03 | 01 | 200 |
| Percenta | age | 28% | 70% | 1.5% | 0.5% | 100% |

Discussion: Almost whole of our research population agree and strongly agree that AI tools have improved their efficiency in content production.

6. Do you believe AI tools will dominate the future of media and communication industries?

| Gender | | \mathbf{A} | SA | D | SD | Total |
|--------|------------|--------------|-----|-----|-----|-------|
| Male | Count | 28 | 52 | 06 | 04 | 100 |
| | Percentage | 14% | 26% | 03% | 02% | 50% |

| Female Count Percentage | 24 22% | 64 32% | 08 04% | 04 02% | 100 50% |
|-------------------------|-----------|-----------|-----------|--------|------------|
| Total Count Percentage | 52 | 116 | 14 | 08 | 200 |
| | 26% | 58% | 07% | 04% | 100% |

Discussion: **Majority** believe that AI tools will dominate the future of media and communication industries while minority opposes this point of view.

7. Do you believe digital media trends shape your perception of news and current events?

| Gender | | A | SA | D | SD | Total |
|----------|------------|-------|-------|------|------|-------|
| Male | Count | 20 | 76 | 03 | 01 | 100 |
| | Percentage | 10% | 38% | 1.5% | 0.5% | 50% |
| Female | Count | 11 | 77 | 05 | 07 | 100 |
| | Percentage | 5.5% | 38.5% | 2.5% | 3.5% | 50% |
| Total | Count | 51 | 152 | 52 | 70 | 200 |
| Percenta | age | 10.5% | 76% | 26% | 35% | 100% |

Discussion: Seventy Six percent media students strongly believe that digital media trends shape their perception of news and current events while thirty five percent journalism pupils believes that it doesn't shape their perception of news and current events.

| 8. Do you think AI tools limit your creativity in content creation? | | | | | | | | |
|---|------------|-----|-----|-----|-----|-------|--|--|
| Gender | | A | SA | D | SD | Total | | |
| Male | Count | 12 | 18 | 40 | 30 | 100 | | |
| | Percentage | 06% | 09% | 20% | 15% | 50% | | |

| Female Count | 16 | 04 | 26 | 54 | 100 |
|--------------|-----|-----|-----|-----|------|
| Percentage | 08% | 02% | 13% | 27% | 50% |
| Total Count | 28 | 22 | 52 | 84 | 200 |
| Percentage | 14% | 11% | 33% | 42% | 100% |

Discussion: Based on the respondents feedback it is concluded that AI tools do not limit individuals creativity in content creation.

| - | | | | |
|---|------------------------------------|----------------------|---------------------------|------------------|
| - | 9. Do you believe that AI has made | digital contant mana | managemalized for your ac | a madia atudant? |
| - | 9. Do you believe that AT has made | aighaí comein more | personalized for you as | a media student? |
| | , i = 0 | | r | |

| Gender | | A | SA | D | SD | Total |
|----------|------------|-----|-----|-----|-----|-------|
| Male | Count | 24 | 26 | 28 | 22 | 100 |
| | Percentage | 12% | 13% | 14% | 11% | 50% |
| Female | Count | 20 | 30 | 24 | 26 | 100 |
| | Percentage | 46% | 20% | 19% | 15% | 50% |
| Total | Count | 54 | 56 | 52 | 48 | 200 |
| Percenta | ige | 27% | 28% | 26% | 24% | 100% |

Discussion: The ratio of the respondents is somehow balanced among those who agree and disagree upon the table number 9 question.

Section 2: Algorithms and Big Data

| 10. Do social r | media algorithms | influence the type | of content you so | ee daily? |
|-----------------|------------------|--------------------|-------------------|-----------|
| | | | | |

| Gender | | A | SA | D | SD | Total |
|--------|------------|-----|-----|------|------|-------|
| Male | Count | 16 | 80 | 03 | 01 | 100 |
| | Percentage | 08% | 40% | 1.5% | 0.5% | 50% |

| Female Count Percentage | 15 7.5% | 83 41.5% | 01 0.5% | 01 0.5% | 100 50% |
|-------------------------|-------------|--------------|-----------|-----------|------------|
| Total Count Percentage | 31 15.5% | 163 81.5% | 04 02% | 02 01% | 200 |

Discussion: Respondents are agreed upon the strong influence of algorithms on their daily life activities on social media which create filters bubbles for them.

| 11. Are you aware of and believe of algorithms shaping your online experiences? | | | | | | | | |
|---|------------|-----|-----|-----|-----|-------|--|--|
| Gender | | A | SA | D | SD | Total | | |
| Male | Count | 32 | 56 | 10 | 02 | 100 | | |
| | Percentage | 16% | 28% | 05% | 01% | 50% | | |
| Female | Count | 20 | 60 | 10 | 08 | 100 | | |
| | Percentage | 10% | 30% | 05% | 04% | 50% | | |
| Total | Count | 52 | 116 | 20 | 10 | 200 | | |
| Percenta | age | 26% | 58% | 10% | 05% | 100% | | |

Discussion: Majority is informed about the digital media algorithms that shape the users online experiences.

12. Do you believe that there's significant role of big data analytics in tailoring content for you?

| Gender | | A | SA | D | SD | Total |
|--------|------------|-----|-----|-----|-----|-------|
| Male | Count | 60 | 30 | 06 | 04 | 100 |
| | Percentage | 30% | 15% | 03% | 02% | 50% |

| Female Count Percentage | 68 34% | 22 11% | 02 | 08 04% | 100 50% |
|--------------------------|------------|-----------|----|-----------|------------|
| Total Count Percentage | 128 64% | 42 21% | 08 | 12 06% | 200 |

Discussion: Media Students strongly believe that there's significant role of big data analytics in tailoring content for them and other users of the society.

| 13. Do y | 13. Do you feel that algorithms limit your exposure to diverse perspectives? | | | | | | | | |
|----------|--|-----|-----|-----|-----|-------|--|--|--|
| Gender | | A | SA | D | SD | Total | | | |
| Male | Count | 24 | 26 | 28 | 22 | 100 | | | |
| | Percentage | 12% | 13% | 14% | 11% | 50% | | | |
| Female | Count | 20 | 30 | 24 | 26 | 100 | | | |
| | Percentage | 46% | 20% | 19% | 15% | 50% | | | |
| Total | Count | 54 | 56 | 52 | 48 | 200 | | | |
| Percenta | age | 27% | 28% | 26% | 24% | 100% | | | |

Discussion: This study observed a balanced response of media pupils on algorithms limiting their exposure to diverse perspectives.

14. Do you agree that big data made it easier for you to access relevant information for your studies?

| Gender | | A | SA | D | SD | Total |
|--------|------------|------|-------|------|------|-------|
| Male | Count | 15 | 83 | 01 | 01 | 100 |
| | Percentage | 7.5% | 41.5% | 0.5% | 0.5% | 50% |

| Female Count Percentage | 16 08% | 80 40% | 03 | 01 0.5% | 50% |
|-------------------------|-------------|--------------|----|-----------|-----|
| Total Count Percentage | 31 15.5% | 163 81.5% | 04 | 02 01% | 200 |

Discussion: Big data made it easier for students to access relevant information for thier studies regarding mass communication, journalism and media.

| 15. Do you believe algorithms prioritize sensational content over factual information? | | | | | | | | |
|--|----------|-------------|-----|------|-------|--|--|--|
| Gender | A | SA | DA | SDA | Total | | | |
| Male Count | 21 10.5% | 77 38.5% | 02 | 00 | 100 | | | |
| Percentage Female Count | 20 | 60 | 10 | 3.5% | 100 | | | |
| Percentage | 10% | 30% | 05% | 05% | 50% | | | |
| Total Count | 41 | 137 | 12 | 10 | 200 | | | |
| Percentage | 20.5% | 78.5% | 06% | 05% | 100% | | | |

Discussion: Obviously an algorithmic approach can be the best fit method to prioritize sensational content over factual.

| 16. Had | 16. Had big data improved the accuracy of information available to you? | | | | | |
|---------|---|-----|-----|-----|-----|-------|
| Gender | | A | SA | D | SD | Total |
| Male | Count | 24 | 26 | 28 | 22 | 100 |
| | Percentage | 12% | 13% | 14% | 11% | 50% |

| Female Count | 22 | 34 | 28 | 16 | 100 |
|--------------|-----|-----|-----|-----|------|
| Percentage | 11% | 17% | 14% | 08% | 50% |
| Total Count | 46 | 60 | 56 | 38 | 200 |
| Percentage | 23% | 30% | 28% | 19% | 100% |

Discussion: Some pupils agreed upon big data improving the accuracy of information available to them while on the other hand other pupils disagree this statement and believe that big data can leads to miss information, mal information and dis information of the users.

| 17. Do y | 17. Do you feel that algorithms create echo chambers, reinforcing your existing beliefs? | | | | | |
|----------|--|-------|-------|------|------|-------|
| Gender | | A | SA | D | SD | Total |
| Male | Count | 13 | 77 | 06 | 04 | 100 |
| | Percentage | 6.5% | 38.5% | 03% | 02% | 50% |
| Female | Count | 18 | 72 | 07 | 03 | 100 |
| | Percentage | 09% | 36% | 3.5% | 1.5% | 50% |
| Total | Count | 31 | 149 | 13 | 07 | 200 |
| Percenta | age | 15.5% | 74.5% | 6.5% | 3.5% | 100% |

Discussion: Algorithms definitely create echo chambers, reinforcing the existing beliefs of the netizens in different ways while following pre-defined algorithmic approaches.

| 18. Has big data made you more aware of your digital footprint? | | | | | | |
|---|------------|-------|-------|-----|-----|-------|
| Gender | | A | SA | D | SD | Total |
| Male | Count | 37 | 31 | 12 | 20 | 100 |
| | Percentage | 18.5% | 15.5% | 06% | 10% | 50% |

| Female Count Percentage | 34 | 36 | 16 | 14 | 100 |
|--------------------------|-------|-------|-----|-----|------|
| | 17% | 18% | 08% | 07% | 50% |
| Total Count Percentage | 71 | 77 | 28 | 34 | 350 |
| | 35.5% | 38.5% | 14% | 17% | 100% |

Discussion: Respondents claims that indeed Bigdata made them more aware of their digital foot prints while some of the population disagree this view.

| | | | | | _ | _ |
|--------|-------------|------------|------------|-----------|--------------|---------------|
| 10 Do | vou haliava | algorithme | are biased | and favor | cartain tuna | s of content? |
| 19. DO | you believe | argorrums | are braseu | and ravor | certain type | s of content: |

| Gender | | A | SA | D | SD | Total |
|----------------|---------------------|-----------|-----------|-----------|--------|-------------|
| Male | Count Percentage | 40 20% | 58 28% | 02 01% | 00 00% | 100 50% |
| Female | Count Percentage | 32 16% | 62 | 04 | 02 | 100 50% |
| Total Percenta | Count | 72 36% | 120 | 06 | 02 | 350 100% |

Discussion: Media pupils are well aware about digital media algorithmic bias and always favour certain types of content while very less number has sufficient information regarding the question and dis agree the statement.

Section 3: Agenda Setting and Narrative Building

20. Do you believe AI and digital media trends influence the agenda-setting process in mainstream media?

| Gender | | A | SA | D | SD | Total |
|--------|------------|-----|-----|------|------|-------|
| Male | Count | 22 | 74 | 03 | 01 | 100 |
| | Percentage | 11% | 37% | 1.5% | 0.5% | 50% |

| Female Count Percentage | 10 | 78 | 05 | 07 | 100 |
|--------------------------|-----------|------------|-----------|-----------|-----|
| | 5% | 38% | 2.5% | 3.5% | 50% |
| Total Count Percentage | 32 16% | 152 76% | 08 04% | 08 04% | 200 |

Discussion: **Strong** belief is observed by the study that AI and digital media trends influence the agenda-setting process in mainstream media.

| 21. Do you accept narratives built by AI-powered too | ols without critical analysis? |
|--|--------------------------------|
|--|--------------------------------|

| | | | G A | D | CID. | TD. A. I |
|----------|------------|-----|-----|-----|------|----------|
| Gender | | A | SA | D | SD | Total |
| Male | Count | 24 | 26 | 28 | 22 | 100 |
| | Percentage | 12% | 13% | 14% | 11% | 50% |
| Female | Count | 22 | 34 | 28 | 16 | 100 |
| | Percentage | 11% | 17% | 14% | 08% | 50% |
| Total | Count | 46 | 60 | 56 | 38 | 200 |
| Percenta | age | 23% | 30% | 28% | 19% | 100% |

Discussion: Balanced response can be observed from the above table regarding narrative building by AI tools without critical analysis.

| 22. How do you rate digital media trends compare to traditional media in shaping public opinion, |
|--|
| in your view? |

| Gender | | A | SA | D | SD | Total |
|--------|------------|-----|-----|-----|-----|-------|
| Male | Count | 30 | 20 | 24 | 26 | 100 |
| | Percentage | 15% | 10% | 12% | 23% | 50% |

| Female Count Percentage | 10 05% | 30 15% | 40 20% | 20 10% | 100 50% |
|-------------------------|--------|-----------|-----------|-----------|------------|
| Total Count Percentage | 40 20% | 50 25% | 64 32% | 46 23% | 200 |

Discussion: **The** rate to which digital media trends compare to traditional media is shaping public opinion is advanced in comparison to the classical concepts and is shaping public opinion.

| Gender | | A | SA | D | SD | Total |
|----------|------------|-----|-----|-----|-----|-------|
| Male | Count | 32 | 38 | 18 | 12 | 100 |
| | Percentage | 16% | 19% | 09% | 06% | 50% |
| Female | Count | 42 | 28 | 20 | 10 | 100 |
| | Percentage | 21% | 14% | 10% | 05% | 50% |
| Total | Count | 74 | 66 | 38 | 22 | 200 |
| Percenta | ige | 37% | 33% | 19% | 11% | 100% |

Discussion: AI tools help 70 percent of the research population to identify biased narratives in the media while 30 percent opposes this question.

| | | T | T | T | ı | ı |
|--------|---------------------|-----------|-----------|-----------|------------|------------|
| Gender | | A | SA | D | SD | Total |
| Male | Count Percentage | 10 05% | 82 41% | 06 | 02 | 100 50% |
| Female | Count Percentage | 13 6.5% | 72 36% | 10 05% | 05 2.5% | 100 50% |

| Total | Count | 23 | 154 | 16 | 07 | 200 |
|-----------|-------|-------|-----|-----|------|------|
| Percentag | ge | 11.5% | 77% | 08% | 3.5% | 100% |

Discussion: **Majority of Journalism students of Universities in Islamabad** believe that big data is used to manipulate public agendas while a very least number of population deny this statement.

25. Do the narratives promoted by algorithms align with the interests of powerful entities?

| Gender | | A | SA | D | SD | Total |
|----------|------------|-----|-----|-----|-----|-------|
| Male | Count | 30 | 56 | 08 | 06 | 100 |
| | Percentage | 15% | 28% | 04% | 03% | 50% |
| Female | Count | 34 | 52 | 04 | 10 | 100 |
| | Percentage | 17% | 26% | 02% | 05% | 50% |
| Total | Count | 64 | 108 | 12 | 16 | 200 |
| Percenta | age | 37% | 54% | 06% | 08% | 100% |

Discussion: There is still knowledge gap and Media pupils agrees upon the point that still the narratives promoted by algorithms align with the interests of powerful entities.

| 26. AI tools help you create more impactful narratives for your projects? | | | | | | | |
|---|------------|-------|-----|-------|-------|-------|--|
| Gender | | A | SA | D | SD | Total | |
| Male | Count | 26 | 24 | 23 | 27 | 100 | |
| | Percentage | 13% | 12% | 11.5% | 13.5% | 50% | |
| Female | Count | 21 | 42 | 28 | 09 | 100 | |
| | Percentage | 10.5% | 21% | 14% | 4.5% | 50% | |
| Total | Count | 47 | 66 | 51 | 36 | 200 | |

| Percentage | 23.5% | 33% | 25.5% | 18% | 100% |
|------------|-------|-----|-------|-----|------|

Discussion: **Pupils who are used to** AI tools are assisted and they create more impactful narratives for their projects while those who are not to used are still unaware of the use nd advantages and do not use it for their projects.

27. Do digital media trends make it harder for you to distinguish between factual and biased narratives?

| Gender | | A | SA | D | SD | Total |
|----------|------------|-----|-----|-----|-----|-------|
| Male | Count | 30 | 30 | 20 | 20 | 100 |
| | Percentage | 15% | 15% | 10% | 10% | 50% |
| Female | Count | 40 | 30 | 16 | 14 | 100 |
| | Percentage | 20% | 15% | 12% | 07% | 50% |
| Total | Count | 70 | 74 | 44 | 12 | 200 |
| Percenta | age | 35% | 37% | 22% | 06% | 100% |

Discussion: This study observed that for majority of media students digital media trends make it harder for them o distinguish between factual and biased narratives.

| 28. Do yo | 28. Do you believe AI and big data are reshaping the role of journalists in agenda setting? | | | | | | | |
|-----------|---|-----|-----|-----|-----|-------|--|--|
| Gender | | A | SA | D | SD | Total | | |
| Male | Count | 42 | 38 | 12 | 08 | 100 | | |
| | Percentage | 21% | 19% | 06% | 04% | 50% | | |
| Female | Count | 28 | 32 | 26 | 14 | 100 | | |
| | Percentage | 14% | 16% | 13% | 07% | 50% | | |
| Total | Count | 70 | 70 | 38 | 22 | 200 | | |
| Percenta | ige | 35% | 35% | 19% | 11% | 100% | | |

Discussion: Journalism students believe that both AI and bigdata is reshaping the role of media persons agenda setting domain.

Discussion and Conclusion:

The study's conclusions shed light on how new technologies particularly artificial intelligence (AI), digital media trends, algorithms, and big data are changing the theoretical and practical frameworks that media students in Islamabad use to set agendas and create stories.

Data gathered from students at several Islamabad Universities indicates that social media, streaming services, and news aggregators platforms powered by algorithms are becoming increasingly important for both news consumption and content production. This is consistent with global trends, where digital platforms determine the ideas that become popular in public debate in addition to dictating the exposure of information (McCombs & Shaw, 1972; Pariser, 2011). Algorithmic literacy and trend analysis are now considered critical abilities in media education, challenging the conventional educational paradigms that prioritize editorial judgment and gatekeeping.

Nonetheless, students expressed serious concerns about the moral and imaginative ramifications of integrating AI. Fears about authenticity, originality, and manipulation surfaced as a major source of unease, as did the hazy distinction between human creation and machine-generated content.

The study also discovered that big data has a slight yet significant influence on the development of narratives. Students frequently monitor audience engagement indicators, including as likes, shares, watch duration, and click-through rates, in order to determine which content to promote or create. Despite its practicality, this data-centric strategy runs the risk of reducing the thematic diversity of tales, promoting adherence to trending subjects, and discouraging opposing or alternative points of view. Students may therefore place a higher priority on virality than on value, which would limit the opportunity for critical or investigative journalism.

To sum up, this study demonstrates the significant impact that AI, digital media trends, algorithms, and big data have on media students' agenda-setting and narrative-building processes. These technologies provide professional, ethical, and pedagogical problems in addition to previously unheard-of chances for creativity and involvement. Academic institutions must reconsider their approach in order to train future journalists and media professionals. They must make sure that students are not only proficient in technology but also critically aware of the socio-political ramifications of the digital tools they use.

Recommendations and Suggestions

- 1. Analyze the effects of AI-driven algorithms on the media consumption habits of Islamabad University students.
- 2. Find out how knowledgeable media students are about agenda-setting and how it influences their content creation.
- 3. Consider the ethical implications of using AI and big data in the creation and consumption of media by college students.
- 4. Examine how filter bubbles limit media students' access to diverse viewpoints and critical thinking.
- 5. Develop educational programs to help students better understand how AI and big data impact media production and consumption.

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