SHARMIN AKTER

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Education

- **Green University of Bangladesh** *2025*
  B.Sc. in Computer Science and Engineering CGPA: 3.72(Running)
- **BAF Shaheen Collage, Dhaka Cantonment** *2018*
  HSC, Dhaka GPA: 4.33
- **Bangabandhu Ideal School, Jamalpur** *2016*
  SSC, Dhaka GPA: 5.00

Experience

- **Solved 250+ problems in the Codeforces & 20+ problems solved in DimikOJ** *2022 - Present*
  Competitive Programmer Dhaka
- **IEEEXTREME 17.0** *2023*
  Top Sixth in Bangladesh Section Dhaka

Personal Projects

- **Help seeker social media site - Django Application** *2023*
  A Project developed by Python and Django
  - Developed a help seeking social media site with Django Framework with leverage with MVC pattern.
  - Here user can immediately seek help with to send the urgent message to his/her friends)

Technical Skills and Interests

Technical Skills: Python, Java, C/C++, JavaScript, TensorFlow, PyTorch, Pycharm, Kaggle and VS Code

Soft Skills: Problem Solving, Critical Thinking, Creativity and Time management

Field of Interest: Machine Learning, Artificial Intelligence, Deep Learning, Computer Vision and Python Development

Hobbies: Eat, Sleep and Coding

Positions of Responsibility

- **Volunteered,** STI Conference 5.0, GUB
- **Volunteered,** IDPC 2024, GUB
- **Graphics Designer,** IEEE Computer Society, GUB

Achievements

- **Vice Chancellor Award:** Received (3 times) Vice chancellor awards for obtaining GPA 3.90+ *2020-2023*
- **Dean Award:** Received (1 time) Dean Award for obtaining GPA 3.80+ *2021*

Languages

- **Bangla** *Professional*
- **English** *Professional*

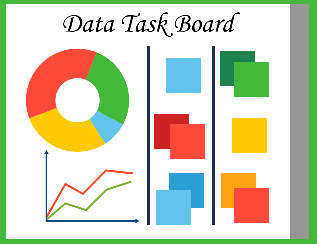
Reference

- **Zahidul Islam** *Professor, Green University of Bangladesh*
  zahid@cse.green.edu.bd

Research Poster: Ethical Study on Data Analysis

Introduction

Privacy Protection
Data Security and Integrity
Ethical AI Development & Environmental Impact
Responsible Data Sharing
Transparency and Accountability



Objective

The goal of data analysis is to extract meaningful information from data sets to facilitate better decision-making, innovation, and improvement across different domains and industries.

Case Study_01

Data Ethics: The principles behind how organizations gather, protect, and use data.

Data is a valuable asset that can build the next great business or innovation to improve the lives of countless people. However, it is also a resource that many organizations are not protecting or using ethically.

Analysis

September 2018, hackers injected malicious code into British Airways'website, diverting traffic to a fraudulent replica site.

In 2019, after Apple introduced its credit card to consumers, allegations of an algorithm with gender bias emerged website, diverting traffic to a fraudulent replica site.

In March 2021, the privacy of over 533 million Facebook users was compromised when their data was posted on an open hackers' forum. It was one of the largest data breaches of all time.

Case Study_02

Ethical Dilemma of Social Media Influence.

Social media platforms use data analysis to curate content for users. Ethical dilemmas arise when these algorithms reinforce polarizing content or spread misinformation, potentially influencing public opinion and societal discourse negatively.

Analysis

The lack of transparency of AI tools and the susceptibility of AI based decisions to inaccuracies, discriminatory outcomes, and embedded bias are some of the ethical dilemmas associated with AI.

The regulation of digital information privacy is dependent on national differences and systems and difficult to implement and enforce across jurisdictional boundaries.

Submitted To

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Submitted By

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Md. Foysal Ahmed
Md. Rayhan Chowdhury
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Example

The Boy Who Hacked NASA : The Tragic Life of Jonathan James

Bangladesh government website leaks citizens' personal data

Unethical use of deep fake technology poses various concerns.

Scenario_01

What If Mark Zuckerberg Steals All Our Data And Runs Away?

Facebook (2018): Data Stolen:
Approximately 87 million users' data

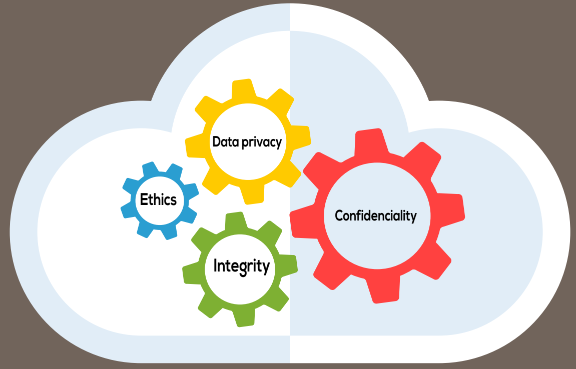
Equifax (2017): Data Stolen:
Data of about 147 million consumers.

Scenario_02

Data Stealing by 3rd Party Website or Mobile Applications?

A third party data breach is an incident where sensitive data from an organization is not stolen directly from it, but through one of its third party vendors. In this case, the vendor's systems are misused to access the organization's systems.

Conclusion



The development of data ethics in Computer Science and Engineering (CSE) has become increasingly important due to the proliferation of data-driven technologies and their impact on society. Data ethics within CSE refers to the moral principles, guidelines, and standards governing the responsible collection, storage, processing, and use of data.