Bidyarthi Paul

B.Sc. in CSE
Computer Science and Engineering
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EDUCATION

•**Ahsanullah University of Science and Technology, Tejgaon, Dhaka** *2020-Present*
  B.Sc in CSE CGPA: 3.874

•**Dhaka Residential Model College, Mohammadpur, Dhaka** *2017-2019*
  Higher Secondary School Certificate GPA: 5.00

•**Scholars' School and College, Dhanmondi, Dhaka** *2015-2017*
  Secondary School Certificate GPA: 5.00

RESEARCH INTERESTS

Natural Language Processing (NLP), Low Resource Language, Large Language Models (LLMs), Deep Learning, Machine Learning, Computer Vision.

PUBLICATIONS

Under Review

- **Bidyarthi Paul**, Dipta Biswas, Md. Abdulla Walid Riaz, Md. Arafat Alam Khandakar. **"Who Falls Victim? A Bengali Multimodal Framework Integrating LLMs for Detecting Harmful Memes and Their Targets".** *Submitted to STI, 2024*

- **Bidyarthi Paul**, Musfiqur Rahman, Dipta Biswas, Ziaul Hasan, MD. Zahid Hossain. **"Analyzing Emotions in Bangla Social Media Comments Using Machine Learning and LIME".** *Submitted to MIET, 2024.*

- **Bidyarthi Paul**, Fariha Tasnim Chowdhury, Dipta Biswas, Meherin Sultana, Shamim Akhter, MD. Zahid Hossain. **"Geospatial and Temporal Trends in Urban Transportation: A Study of NYC Taxis and Pathao Food Deliveries".** *Submitted to ICCIT, 2024.*

INDEPENDENT SOFTWARE AND HARDWARE DEV

•**Agent K-9 (Game)** *2020*
  A multilevel Game using iGraphics
  – Tools & languages used: c++, iGraphics

•**Super Shop Management System (Software)** *2021*
  A Management System designed to streamline inventory, sales, and customer data for efficient retail operations.
  – Tools & languages used: JAVA, MsSql, Netbeans 8.2, Sql server 2014

•**Automobile Safety System (Hardware)** *2022*
  A safety system incorporating collision control detection to avoid accidents and an anti-sleeping buzzer to alert drivers.
  – Tools & languages used: Arduino IDE

•**A Multilevel Windows form game** *2023*
  A gaming adventure where players must conquer three challenging levels to achieve victory and complete the game
  – Tools & languages used: C Sharp, Visual Studios 2019

•**Nim(Python Based Game)** *2023*
  A game where players take turns removing objects from piles, aiming to outwit their opponent and be the last one to pick.
  – Tools & languages used: Python, Google Colab

•**Question Answering ChatBot** *2024*
  A LLM Application using Google Gemini Pro and Langchain where we can have contextual-based answering from the uploaded PDF with the help of FIASS vector embedding.
  – Tools & languages used: Visual Studios 2019, Python, Langchain, Streamlit, Gemini-Pro

Technical Skills

Programming Languages: C/C++, Python
Deep Learning Tools:Keras, Tensorflow, PyTorch, scikit-learn
Developer Tools: Google Colab, Codeblocks, Visual Studios Code, Netbeans 8.2, Overleaf (Online LaTeX Editor)
Databases: MsSql, SQL Server 2014
MS Office: Word, Excel, Powerpoint, Outlook

Programming Contests and Exhibitions

- Ranked 500th ICPC Asia Dhaka Regional Online Preliminary Contest - 2022

- Participated in Aust CSE Carnival 1.0 - 2022

- Participated in CEFALO Codefiesta - 2022

- Participated in Aust Code Combat 1.0 - 2023

- Participated in Aust CSE Carnival 2.0 (Software Exhibition) - 2023

Interests

Singing: Active participation in the departmental fest and performing at family events.
Guitar Playing: Guitarist with over 3 years of experience.
Photography: Passionate about landscape and portrait photography.
Paint: Enjoys occasional Acrylic Painting.

Languages

English (highly proficient), **Bengali** (native speaker), **Hindi** (fluent)

Achievements

•Scholars' School and College Science Fair 2nd Runners up	*2016*
•General Scholarship in JSC (Junior School Certificate)	*2014*
•Consistently received tuition fee waivers in the 1st, 2nd, 3rd, 5th, 6th, and 7th semesters based on top academic ranking and merit within the CSE Department.	*2021 - 2024*

References

1) Mr. Faisal Muhammad Shah
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