Nazifa Fairuz Zuthi

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Profile Summary

I am currently working as an Aspire Full stack and AI-ML Developer (intern). I am AI & Machine Learning enthusiast with a strong foundation in Machine Learning, Natural Language Processing, and Data Science, currently pursuing a B.Sc. in Computer Science and Engineering. Experienced in end-to-end ML projects and competitive programming. Passionate about innovative AI applications, especially in assistive technologies, and competitive programming driven by a desire for continuous learning and impactful contributions.

Education

-B.Sc. in Computer Science& Engineering

Rajshahi University of Engineering and Technology (RUET), Rajshahi, Bangladesh CGPA: 3.74
(up to 5th Semester out of 4.00) Duration: January2023 – Present

Skills

Technical Skills

-Languages: C/C++,Python, Java, JavaScript,C#,Go-lang

-ML & AI: Supervised, Unsupervised, Reinforcement Learning
-Deep Learning: CNN, NLP, NLTK, TensorFlow, Keras, BERT, DialogFlow, Deep Learning
-Data Science Tools: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
-Web Development: HTML, CSS, Django, javascript, react js
-Database: MySQL, PostgreSQL

-Other Skills: Data Structures &Algorithms, Git, competitive ProblemSolving

Professional Skills

-Effective Communication

-Team Player

-Strong Problem Solver

-Documentation & Presentation

-Time & Event Management

Apllication

-VScode, Pycharm, Arduino IDE

-XAmpp, PgAdmin, MySQL

-Colab, Jupyter Notebook, Github, Anaconda

Experience

- Volunteer Teacher at Shopnochui- An organization Supporting Underpriviledged Children.

-Question Maker at a private couching

- Head of Designing Team at Terrsus

 (Project Tersus is a campaign against growing plastic waste in Bangladesh.)

-CMO and Co-Founder at project Waste2Wealth

Publications

-Refreshable Braille Display: A Review of Existing Technologies and a Proposed Method (Accepted)

A low cost refreshable braille, incorporated AI techniques to generate speech output, enhancing accessibility for visually impaired users.

Achievements

-1st Runner up in International Datathon Competition at North Western University in Khulna.

-2nd Place – Art Competition, Youth Festival 2025

- 2nd Runner-Up – HULT On-Campus Competition

-Selected for Innovation Hub: Hostel Management System Project

-Funded Project at Innovation Hub: Braille DisplayProject

-30th at competitive programming on campus team contest in 2024

-5th at IEEE content writing competition.

Internship

- Aspire Full Stack and AI-ML Developer (Intern)

-Excelerate AI Powered Data Insights Virtual Early Internship(global)

-SheSTEM leadearship internship

Extracurricular Activities

-HR – Onuronon CulturalClub-Organizedcultural and tech-integrated events; led team collaborations and communications.
-Event Manager- ASSR(Astronomy club)
-Class Representative of RUET CSE Department 21 series section B.

Projects

Backend with .Net- C# ASP.NET Core Web API project, and from the structure + file names, it's very clearly a CRUD-style backend API for managing RPG characters**.**(link)

Titanic Survival Prediction – Classification ML Project (link)

-Built and evaluated machine learning models to predict survival chances.

-Focused on feature engineering and model tuning for better performance.

EcomEase – E-commerce Platform using Django (link)

- Created a full-stack e-commerce website with user registration, cart system, and secure checkout.

-Used Django ORM for backend operations and Bootstrap for frontend styling.

UFO Invasion – 2D Game in Python (link)

-Designed an arcade-style game using Pygame where users control a spaceship to defend against UFOs.

-Implemented scoring system, animations, and object collision logic.

SmartBag – Bag Price Prediction (link)

- Applied regression models to predict bag prices based on material, brand, and other features.

-Used feature scaling and evaluation metrics to refine model accuracy.

Chat Bot With DialogFlow (link)

- A chatbot built with Dialogflow enables natural, conversational interactions between users and a system.

Sentiment Analysis Project (link)

- A sentiment analysis project detects and classifies emotions in text as positive, negative, or neutral.

Spam Detection Using Bert (link)

- A spam detection project using UNIGRAM and BERT identifies and filters unwanted messages by combining simple token patterns with deep contextual understanding.

Geometry Genius (link)

- The Geometry Genius JavaScript project calculates areas of different shapes dynamically based on user input.

Nazifa-Fairuz-Zuthi.github.io(link)

-This is my Portfolio website

DeSchol (link)

- A scholarship portal for studying abroad where you can get news link with details.

References

Azmain Yakin Srizon Assistant
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