MD. SAIDUR RAHMAN SUJON

CSE GRADUATE, AI & SOFTWARE ENGINEERING ENTHUSIAST
AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

(880) 1729 545 654

sr.sujon.cyb@gmail.com

Moghbazar, Dhaka, Bangladesh

ABOUT ME

As a fresh CSE graduate, AI/ML Engineer and Software Developer, I acquire hands-on expertise in front-end and back-end development. I specialize in developing interactive web applications, specialized using the MERN framework and extracting actionable insights from data for business analysis and forecast. I am also expanding my abilities in data science and problem-solving. I have developed several e-commerce apps, web applications and 3D games. My research interest lies in Generative AI, NLP, Data Science, and Computer Vision.

PROFILE LINKS

- Portfolio Website
- LinkedIn
- GitHub
- Kaggle
- Leetcode
- Hackerrank
- ResearchGate

REFERENCES

Mr. Faisal Muhammad Shah
Associate Professor,
Department of Computer Science and Engineering,
Ahsanullah University of Science and Technology, Dhaka
Email: faisal.cse@aust.edu
Contact: 01729594777

HOBBIES & INTERESTS

- Technical Reading and Writing
- Participating in hackathons
- Competing in marathons
- Photography and Travel
- Learning new languages

EXPERIENCE

NOV 2023 - DEC 2023
Data Science and Business Analytics Intern | The Sparks Foundation
SINGAPORE – REMOTE

Key responsibilities: Performing data acquisition, cleaning, and preparation using NumPy and Pandas for exploratory data analysis. Applying statistical methods and machine learning algorithms for trend prediction and classification. Creating visual representations with PowerBI to effectively communicate findings.

[CERTIFICATE OF COMPLETION] [GITHUB] [YOUTUBE]

EDUCATION

2019 - 2023
Bachelor of Science in Computer Science & Engineering | Ahsanullah University of Science and Technology
- CGPA: 3.578

TECHNICAL SKILLS

- **Machine Learning:**
  - Frameworks: NumPy and Pandas, TensorFlow, PyTorch, Scikit-Learn, Matplotlib, Keras, OpenCV, XGBoost, Seaborn, SciPy, Dask, BeautifulSoup
  - Scope: NLP, Computer Vision, Generative AI and Large Language Models
  - Exploratory Data Analysis: Strong proficiency in Python and R
- **Web Development:**
  - HTML, CSS, JavaScript, Bootstrap, PHP, ASP.NET MVC 5
  - Framework: Express.js, React.js, Node.js, Next.js, Three.js, Tailwind.css, Typescript, Restful API
- **Problem Solving:**
  - 200+ on Leetcode, Codeforces, Codechef, and Hackerrank with Python, C/C++, Java, and JavaScript using Data Structure & Algorithm knowledge.
- **Cybersecurity & IT Support:** Proficient in security principles (e.g., antivirus, firewalls, encryption) and data backup/recovery, ensuring robust protection and data integrity.
- **OS:** Windows, Linux
- **Version control:** Git, GitHub
- **Database:** MSSQL, MySQL, MongoDB, SQLite, PostgreSQL, Oracle
- **IDE and Tools:** Code blocks, NetBeans, Eclipse, VMware, Google Colaboratory, Kaggle, PowerBI

SOFT SKILLS

- **Communication:** Strong verbal and written skills in the English language. Proactive, Initiate questions, share progress, provide and seek guidance, assist peers, open to feedback for improvement.
- **Leadership & Teamwork:** Collaborative, actively engaging, learning from the team, and contributing ideas. Quick to adapt to new technologies and trends.

PROJECT EXPERIENCE

- **ACADEMIC:**

Weekend Music Store: [GitHub] [YouTube]

- An e-commerce management system for online shopping, created with JavaFX and Scenebuilder on Netbeans; implemented with RDBMS (MSSQL).
- **Key Features:** Inventory Management System developed using CRUD architecture, Login, Register, Multiple dashboards designed for users and admins, Sales and Inventory Analysis, Product searching, and robust payment gateway using credit card transactions are implemented with optimized error handling.

Rubik's Realm: [GitHub] [Live site]

- A 3D Rubik's Cube game built using HTML, CSS, and JavaScript with Three.js library.
- **Key Features:** Fully interactive and customizable Rubik's Cube, with options for changing the cube size, flip-type, scramble length, camera angle, and color scheme. keeps track of user statistics, options for starting a new game, resetting the cube, and customizable game settings.

Bhara Dibo: [GitHub]

- A web application built using ASP.NET MVC 5, where individual properties can be rented and borrowed for a limited time with policy constraints.
- **Key Features:** Different UIs with relevant configurations are implemented for both users and admins, with real-time feed management using MSSQL. Interactive inventory management system for users using CRUD operations.

- **ONGOING:**

Job Lagbe: [GitHub] [Live site]

- A job hunting Full-Stack MERN web application that helps candidates find their dream jobs and job recruiters find their best candidates.
- **Key Features:**

- Front-End: Developing a dynamic React front-end application using VITE, creating pages such as Landing, Login, Register, and Dashboard with page transitions.
- Backend: Established a robust server application from scratch using Node.js and Express, incorporating ES6 modules, React Router 6, MongoDB, Axios for API interactions and setting JWT tokens in Postman.

- **MACHINE LEARNING:**

Chatter-AI: [GitHub] [Live site] [YouTube]

- A web application that allows you to chat with websites and extract information from them. It uses the LLMs and LangChain library to process and understand the content of the website and allow users to interact with it on the Streamlit interface. It has two output formats: JSON and Q/A, including I/O configuration flexibility.
- **Key Features:**

- Front-End: Developed a dynamic front-end application using Streamlit for smooth UI where users can configure the settings manually.
- Backend: Integrated OpenAI API to use LLMs, LangChain for performing RAG to optimize the output, ChromaDB for database management & BeautifulSoup4 for scraping.

LlamaChirp: [GitHub] [Medium]

- LlamaChirp is an innovative project enabling users to engage in dynamic conversations with PDFs to extract and comprehend information using locally hosted LLM variants of Ollama by integrating Retrieval-Augmented Generation (RAG) techniques. Experience seamless interaction, precise responses, and personalized conversational experiences with LlamaChirp.
- **Key Features:**

- Front-End: Developed using Chainlit for smooth UI where users can chat upload documents and start a conversation with the chatbot.
- Backend: Integrated Ollama models with LangChain to perform RAG for context searching and generate answers with source using ChromaDB for database management & PyPDF2.

Others:

1. House Price Analysis and Prediction in Bangladesh, Mexico
2. Depression Analysis and Detection from Social Media Posts
3. GDP analysis based on geographic area
4. Stock Market Analysis using Numerical and Textual Data
5. Air Quality in Nairobi
6. Pneumonia, Covid-19, Tuberculosis Detection from Chest X-ray
7. Breast Cancer Classification

CERTIFICATIONS

1. ITEE Level-II: Fundamental Exam (FE) Full-Passer (FE01-0172) –April-2024
2. ITEE Level-II: Fundamental Exam (FE) Half-Passer (FE01-0160) – Oct-2023
3. Prompt Engineering for Chat-GPT
4. Python for Everybody Specialization
5. The Bits and Bytes of Computer Networking
6. IT Security: Defense against the digital dark arts
7. Technical Support Fundamentals

EXTRACURRICULAR

1. Mindsparks'20 Engineering Olympiad Participant
2. Campus Ambassador, Bangladesh ICT Olympiad
3. Codeware19 – Intra AUST Programming Contest Spring-2019 Participant

PUBLICATIONS

- Harnessing Large Language Models Over Transformer Models for Detecting Bengali Depressive Social Media Text: A Comprehensive Study
  [ELSEVIER | Natural Language Processing Journal (Volume 7)]
  [Publication: June 2024]