Arafat Hos sain Ankon

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🏠 Joydebpur, Gazipur, Dhaka | 🔗 Ankon-Portfolio

Career Objective

I'm a dedicated AI enthusiast with hands-on experience in building intelligent solutions using **Transformer models**, **LangChain**, and **LLMs**. Quick to adapt and detail-oriented, I stay up to date with the latest advancements in NLP, machine learning, and deep learning. Proficient in **Python, SQL, Pandas, and NumPy,** with additional skills in Power BI for data-driven insights. My vision is to develop impactful AI tools that solve real-world challenges and create lasting value.

EDUCATION

2021 - 2025

DAFFODIL INTERNATIONAL UNIVERSITY (DIU)
Bachelor of Science in Software Engineering (Major in Data Science)
CGPA: **3.92 out of 4.00**

2020

Milestone College
Higher Secondary School Certificate (H.S.C)
GPA: **5.00 out of 5.00**

2018

Rani Bilas Moni GOVT. Boys HIGH SCHOOL
Secondary School Certificate (S.S.C)
GPA: **5.00 out of 5.00**

Projects

06/2025

CV-Tutor – AI-Powered Resume & Job Application Assistant ◈ Github

A smart web application that streamlines the job application process using **generative AI.** Users can upload their resume and a job description to **receive personalized suggestions** for improving skills, project alignment, and keyword optimization. Key features include automatic cover letter generation, AI-based email drafting, interview question generation, and resume- to-JD match analysis. It is powered by the **Google Gemini API** for intelligent text generation and context-aware recommendations. Built with **Python (Flask) on the backend** and **HTML, CSS, JavaScript on the frontend**, the platform delivers a responsive and user-friendly experience. Designed with scalability and user feedback in mind, CV-Tutor **leverages modern NLP techniques** to assist job seekers with precision and ease.

04/2024

Enhancing Oral Cancer Detection using Vision Transformer ◈ Github

- Built a deep learning model using **Vision Transformer (ViT)** to detect **oral cancer** from **clinical and histopathological** image datasets.
- Merged and normalized two distinct datasets to enhance data diversity and model robustness.
- **Achieved 99.92% validation accuracy** and **99.22% test accuracy** with excellent precision, recall, and F1-score.
- Evaluated model performance using a classification report and confusion matrix for reliable assessment.
- Applied image preprocessing, patch embedding, and transformer-based feature extraction for classification.

03/2025	**AskRemedy — AI-Powered Health Assistant** ◈ Github

Developed a web-based **AI assistant** that suggests **expected symptoms** and predicts potential diseases from user-described symptoms using **Gemini API, LangChain, and RAG** (Retrieval-Augmented Generation). Designed with **Flask and integrated** a clean frontend (HTML, CSS, JS) to deliver real-time, treatment-focused health responses. Enhanced the system's accuracy and reliability by integrating external medical data sources, enabling context-aware and user-friendly health guidance.
Technologies: Flask, Python, Gemini API, LangChain, RAG, HTML, CSS, JavaScript

02/2025	**Mail Mentor – Smart Email Reply Generator** ◈ Github

Developed a **full-stack web application** using Google **Generative AI (Gemini 1.5 Flash)** to generate context-aware, tone-specific email replies (Professional, Casual, Friendly). Integrated **SMTP functionality** with Gmail to enable direct email delivery from the interface. Key features include editable **AI-generated responses**, automatic subject line extraction, loading animations, and a responsive landing page for user onboarding.

Technologies: FastAPI, Google Generative AI (Gemini), JavaScript, HTML, CSS, SMTP.

TECHNICAL SKILLS

Languages	Data Science & Analysis	ML & AI	BI Tools
Python,	Pandas,	TensorFlow,	Power BI
SQL	NumPy,	FastAPI,	
HTML,	Matplotlib,	RAG,	
CSS	Hugging face	Pytorch	

ACHIEVEMENTS

💡 Finalist, DIU 3 Minute Thesis Competition, 2025

💡 Achieved a CGPA of 4.00/4.00 for three consecutive semesters in the Bachelor of Science in Software Engineering program.

HOBBIES

- Hiking
- Travelling
- Volunteering

REFERENCES

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