MD. RAKIBUL HAQUE

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EDUCATION

European University of Bangladesh **2022**
Bsc in Computer Science and Engineering *Dhaka, Bangladesh*

Udacity **06 2018**
Data Foundation Nanodegree *Emeryville, California, USA*

Satkhira Polytechnic Institute **2018**
Diploma in Engineering in Computer Science and Engineering *Satkhira, Bangladesh*

PUBLICATIONS

A deep learning approach for brain tumor detection using magnetic resonance imaging ↗

International Journal of Electrical and Computer Engineering (IJECE) - **2022-10-25**

TECHNICAL SKILLS

OS: Linux, Mac, Windows
Languages: Python, JavaScript, SQL
Developer Tools: VS Code, Spyder, Jupyter Notebook
Technologies/Frameworks: Langchain, CrewAI, LLM Prompt Engineering, VectorDB, Scikit-learn, Keras, Tensorflow, Django Rest Framework, FastAPI, NLTK, Spacy, Opencv, Numpy, Pandas, Matplotlib, Seaborn, CSS, Bootstrap, Git

WORK EXPERIENCE

AriSaf Tech Ltd ↗ **04 2023 – present**
Jr AI Engineer *Dhaka, Bangladesh*
- Engaged with ARChat, a sophisticated LLM chatbot, contributing to its development and optimization.
- Worked on notable AI-based projects such as cv-sorting, AutoHR.
- Performed various AI Proof of Concept (PoC) initiatives to explore and showcase cutting-edge tech feasibility.
- Engaged in research and development focusing on Natural Language Processing (NLP) for AI projects.
- Conducting extensive R&D to integrate emerging technologies and drive product innovation.
- Building and managing APIs with DRF and FastAPI for optimized backend services.

Poridhi ↗ **01 2022 – 01 2023**
Teaching Assistant *Dhaka, Bangladesh*
- Write blogs about various technological topics
- Assist Teachers in various courses
- Assist Students in coding assignments

Headblocks ↗ **04 2019 – 05 2020**
Junior Machine Learning Engineer *Dhaka, Bangladesh*
- Collaborated on a team project leveraging IBM's WKS, under the supervision of IBM professionals.
- Led research and development for Named Entity Recognition (NER) tailored for resumes.
- Developed a sophisticated model capable of identifying various entities within resumes.
- Processed and annotated a large resume corpus to train and refine the NER model.

CERTIFICATIONS

- Python programming track - DataCamp
- Data Science & Machine Learning With Python - Skill Jobs
- 3 months course on Artificial Intelligence - LICT
- Interactivity with JavaScript - Coursera
- Introduction to Machine Learning - Coursera
- JavaScript for beginners - Stepik
- Programming for Everybody - Coursera

NOTABLE PROJECTS

ARChat | Openai API, Langchain, SupabaseDB, Python
- Custom chatbot creation with multiple knowledgebase
- Optimized RAG based QA
  Live site here

AutoHR ⧉ | Llama3.1, Langgraph, CrewAI, Langchain-tools, GmailAPI, Python
- An autonomous multi-agent system to automate most of the workflow of an HR Persona
- Can automatically pull, research, and draft email responses in gmail

CV-Sorting | Openai API, Langchain, PineconeDB, Python
- A POC on sorting resumes against a job description with relevance scoring

AI Study Buddy ⧉ | Openai API, Langchain, Chroma DB, Streamlit, Python
- A Question Generation and answering platform for students and teachers
- Given any number of PDF AI will generate questions based on the documents provided
- User can submit URL, Youtube video link, along with pdf documents
- User can select questions and AI will generate answers to the question from the documents
- User can see the source from which the question has been answered
- User can generate a summary of the document
  Live site here

Chatbot AI Backend ⧉ | GPT-3.5Turbo16k, langchain, fastapi, PineconeDB, Python
- An API for the backend of a rag chatbot
- User can upload docx,pdf,pptx document and chat with it

Resume Categorizer ⧉ | numpy, pandas, matplotlib, seaborn, scikit-learn, Python
- A ml model that chat categorize resumes to different sub-domains (ex. HR, ARTS, etc)

AriSaf Chatbot ⧉ | GPT-3.5, Langchain, FaissDB, Streamlit, Python
- A chatbot for the AriSaf Tech website using the knowledgebase from the site urls

RealEstate Backend ⧉ | Django Rest Framework, Python
- An API for the backend of a real estate website

Book Recommender System ⧉ | Numpy, Pandas, Machine Learning, Streamlit, Python
- User can select a book name from a drop-down list
- Model will recommend 5 books
  Live site here

Movie Dataset 2023 ⧉ | Numpy, Pandas, Jupyter Notebook, Python
- A dataset of all movies till 2023
- Can be used for EDA, Recommendation Systems, Data Analysis, etc..

Covid 19 Detector ⧉ | Deep Learning, Django, Python, Heroku, HTML, CSS
- Given a chest X-ray image of a person the system will detect covid 19
- Model build and trained using Deep Learning architecture
- UI is build with python django framework

EXTRACURRICULAR

EUB Data Science Club   04 2019 – 01 2022
President   *Dhaka, Bangladesh*

EUB Intra University ICT Carnival
Champion

Facebook Developer Circle Dhaka
Member