



UTSHAB KUMAR GHOSH

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I have been working with Python, Machine Learning, and Data Science for 4+ years. I also have an experience of 1+ year in Full Stack Development. My motto is to collaborate in the field of SWE and ML. With the analytical skill of problem solving, full stack dev, and ML/DL, I want to gather experience and knowledge from a based environment, contributing to the humankind and industry.

Education

Jan 2017– Oct 2022 **Bachelor of Science: Computer Science & Engineering** (CGPA: 3.22)
Rajshahi University of Engineering & Technology – Rajshahi, Bangladesh

Work Experience

- Dec 2022– Present** **Jr. Software Engineer**
Nascenia Ltd. – Dhaka, Bangladesh
Department: Machine Learning & Full Stack Dev
 - A2I Chatbot for Govt. sites:** In developing multilingual conversational chatbots, including Bengali, for government websites in collaboration with A2I, I spearhead pioneering research in Bangla Large Language Models (LLM) along with RASA. The technical pursuits involve advanced data scraping, preprocessing, fine-tuning, and quantization of LLMs like Llama-2, mBart, and GPT-3.5. Leveraging LangChain, the team heightens chatbot responsiveness. Our work on prominent platforms like Muktopaath and MyGov underscores our dedication to pushing the boundaries of Bangla LLM research, contributing to the evolution of public service delivery in Bangladesh. It includes Full Stack jobs like development of Flask API and custom Admin Panel for the client to ingest data, control and customize the chatbots.
 - Project in Laravel Framework:** Worked as Full Stack developer.
 - Building Components with JavaScript, React, PHP.
- Feb 2023– Present** **Mentor**
Code Studio Academy – Dhaka, Bangladesh
Department: Python, Machine Learning & Data Science
 - Currently leading a Machine Learning Bootcamp with over 120 enrolled students. The curriculum covers foundational concepts in Python, Machine Learning, Deep Learning, SQL, and includes practical, hands-on projects designed to reinforce learning outcomes.
- Oct 2020– Sep 2022** **AI Research Assistant**
MyMedicalHUB Int. – Florida, USA (Remote)
Department: Machine Learning
 - Gait Analysis Project:** Focused on the detection of Parkinson's disease utilizing Pattern Recognition, Machine Learning, and Deep Learning models. Responsibilities included the analysis of video data to identify key gait patterns associated with the disease to accurately classify and diagnose Parkinson's disease from the collected data.
 - Sports Video and Image Analysis Project:** Engaged in a comprehensive Sports Video and Image Analysis Project, where machine learning techniques such as pattern recognition with angle-based posture analysis and transfer learning models were employed. The project focused on extracting valuable insights from sports videos and images to enhance performance analysis and decision-making in athletic contexts.
 - Worked with AWS, Apace Server, Django REST API.

Certifications

- Deep Learning Specialization**
Institute: deeplearning.ai
- Applied Data Science Specialization**
Institute: IBM
- Data Scientist Career Track**
Institute: Datacamp
- AI for Medical Diagnosis**
Institute: deeplearning.ai

Interpersonal Skills

- Management
- Teamwork
- Multitasking
- Leadership

Languages

- English
- Bangla

Interests

- Music & Instruments
- Taekwondo

Technical Skills

Programming	Python, C, Data Structures & Algorithms.
Web Development	ReactJS, SaaS, Tailwind, JavaScript, Django, Flask, PHP, Laravel.
Data Science, Machine Learning, & Deep Learning	Python, Data Analysis & Visualization, ANN, CNN, LLM, Rasa, Supervised & Unsupervised Learning Algorithms, Feature Engineering, Feature Selection & Extraction.
Frameworks, Library & Tools	TensorFlow, Keras, OpenCV, NumPy, Pandas, Scikit-Learn, Tableau, Excel Spreadsheet.
Mathematics for ML & DL	Algebra, Statistics, Possibility, Geometry, Matrix.
Database	MySQL, MariaDB, Firebase, MongoDB.
Cloud	AWS, Azure, Apache Server.
Miscellaneous	Git, Docker, Linux, Latex, MS Office, Adobe Illustrator, Premiere Pro.

Researches

- Accurate Gait Recognition with Inertial Sensors using a New FCN-BiLSTM Architecture**
Journal: Computers and Electrical Engineering (Q1, Available: <https://lnkd.in/q8QZYgMt>)
- Most Dominant Metabolomic Biomarkers Identification for Lung Cancer**
Journal: Informatics in Medicine Unlocked (Q2, Available: <https://lnkd.in/gh8ZaeHK>)

Projects

- Bone Marrow Cell Classification** (Ongoing)
- [My Machine Learning Projects](#)
- [ML Web App with Flask & AWS](#)
- [Django Ecommerce Site](#)
- [IMDB Clone](#) (ReactJS Project)

Competitions

- Kaggle TensorFlow - Help Protect the Great Barrier Reef** [Top 49% (1019th out of 2109)]
- Kaggle PetFinder.my - Pawpularity Contest** [Top 13% (443th out of 3545)]
- Datahack Traffic Forecasting** [Time Series Dataset, Running]
- HackerEarth ML Challenge: Fast, Furious and Insured** [86th out of 2796]
- HackerEarth ML Challenge: A Fine Windy Day** [54th out of 2034]
- 300+ Problems solved** at Codeforces, Codechef, Leetcode, LightOJ and other Online Judges.