



UTSHAB KUMAR GHOSH

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Dhaka, Bangladesh

I have been working with Python, Machine Learning, and Data Science for 4+ years. My main motto is to collaborate in the field of Machine Learning. With the knowledge of competitive programming, full stack development, and machine learning, I want to gather experience and knowledge from a based environment and to make some contributions to humankind.

Education

Jan 2017–	Bachelor of Science: Computer Science & Engineering (CGPA: 3.22)
Oct 2022	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 <ul style="list-style-type: none">A2I Chatbot for Govt. sites: In developing multilingual chatbots, including Bengali, for government websites in collaboration with A2I, I spearhead pioneering research in Bangla Language Models (LLM). Our technical pursuits involve advanced data scraping, preprocessing, and fine-tuning of LLMs like Llama-2, mBart, and GPT-3.5. Leveraging LangChain, we employ cutting-edge transfer learning to heighten chatbot responsiveness, showcasing our commitment to technological innovation. Our work on prominent platforms like Muktopaath and the Teacher's Portal, employing Scrapy for data scraping and seamless LangChain integration, underscores our dedication to pushing the boundaries of Bangla LLM research, contributing to the evolution of public service delivery in Bangladesh. This narrative emphasizes our pivotal role as trailblazers in the field of Bangla LLM research and application.Project: TourkeyStay in Laravel Framework.Building Components with JavaScript, React, PHP, Laravel.
Feb 2023– Present	Mentor Code Studio Academy – Dhaka, Bangladesh Department: Python, Machine Learning & Data Science
Oct 2020– Sep 2022	AI Research Assistant MyMedicalHUB Int. – Florida, USA (Remote) Department: Machine Learning <ul style="list-style-type: none">Gait Analysis Project.Sports Video and Image Analysis Project.Worked with AWS, Apace Server, Django REST API.

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, 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, 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/g8QZYgMt)
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.

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