



UTSHAB KUMAR GHOSH

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Dhaka, Bangladesh

OBJECTIVES

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.

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.

Dec 2017–
Jan 2020

Smart Book Writer

10 Minute School – Dhaka, Bangladesh

Department: Mathematics & Physics.

EDUCATION

- **Bachelor of Science in Computer Science & Engineering (2017 – 2022)**
CGPA: 3.22 (out of 4.00)
Department of Computer Science & Engineering,
Rajshahi University of Engineering & Technology, Bangladesh
- **Higher Secondary School Certificate (2014 – 2016)**
GPA: 5 (out of 5.00)
Saint Joseph Higher Secondary School, Bangladesh
- **Secondary School Certificate (2009 – 2014)**
GPA: 5 (out of 5.00)
Motijheel Ideal School & College, Bangladesh

SKILLSET

- **Programming** Python, C, Data Structures, OOP & Algorithms.
- **Data Science, Machine Learning, & Deep Learning** 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.
- **Web Development** ReactJS, SaaS, Tailwind, JavaScript, Django, Flask, Laravel.
- **Database** MySQL, MariaDB, Firebase, MongoDB.
- **Cloud** AWS, Azure, Apache Server.
- **Miscellaneous** Git, Docker, Linux, Docker, Latex, MS Office, Adobe Illustrator, Premiere Pro.
- **Interpersonal Skills** Management, Teamwork, Leadership, Multitasking.

RESEARCHES AND PROJECTS

- **Bone Marrow Cell Classification** (Ongoing)
Field: Biomedical
- **Accurate Gait Recognition with Inertial Sensors using a New FCN-BiLSTM Architecture**
Authors: Nahian Rifaat¹, *Utshab Kumar Ghosh*¹, Abu Sayeed
Journal: [Computers and Electrical Engineering](https://doi.org/10.1109/CEEC.2023.1019788) (Q1, Available: <https://lnkd.in/g8QZYgMt>)
Field: Biometrics
- **Most Dominant Metabolomic Biomarkers Identification for Lung Cancer**
Authors: *Utshab Kumar Ghosh*¹, Fuad Al Abir, Nahian Rifaat, S.M. Shovan, Abu Sayeed, Md. Al Mehedi Hasan
Journal: [Informatics in Medicine Unlocked](https://doi.org/10.1016/j.inmed.2023.100000) (Q2, Available: <https://lnkd.in/g8ZaeHK>)
Field: Bioinformatics
- **My Machine Learning Projects:** [Github Repository](#)
- **ML Web App with Flask & AWS:** [Github Repository](#)
- **Django Ecommerce Site** ([Sessional Project](#))
Supervisor: Asst. Prof. Barshon Sen, Rajshahi University of Engineering & Technology
- **IMDB Clone** (ReactJS Project)
Deployed: <https://moviereview-utshabkg.vercel.app/>

COMPETITIONS

- **Kaggle TensorFlow - Help Protect the Great Barrier Reef** (*Video Dataset*)
[Top 49% \(1019th out of 2109\)](#)
- **Kaggle PetFinder.my - Pawpularity Contest** (*Image Dataset*)
[Top 13% \(443th out of 3545\)](#)
- **DataHack Traffic Forecasting** (*Time Series Dataset*)
[Time Series Forecasting \(Running\)](#)
- **HackerEarth ML Challenge: Fast, Furious and Insured** (*Image & Tabular Dataset*)
[Classification & Regression \(86th out of 2796\)](#)
- **HackerEarth ML Challenge: A Fine Windy Day** (*Tabular Dataset*)
[Regression \(54th out of 2034\)](#)

SPECIALIZATION ACCOMPLISHMENTS

- **Kaggle Expert** (x3)
- **300+ Problems solved at** Codeforces, Codechef, Leetcode, and other Online Judges.
- **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

- **Gold Medalist:** National High School Programming Contest

EXTRA CURRICULAR ACTIVITIES

- **Co Founder** (*January, 2019 – May, 2023*)

Code Studio, A software company that builds Mobile and Web Application.

- **Asst. Publication Secretary** (*March 2018 – December 2019*)

RUET Career Forum

- **Vice President (Admin)** (*February, 2021 – October, 2022*)

Onuronon, RUET Cultural Club

- **Founder, Keyboardist, and Guitarist**

Plectrum, a Bangladeshi Band

PERSONAL DETAILS

Date of Birth	December 31, 1998
Gender	Male
Nationality	Bangladeshi
Religion	Hinduism
National ID No.	9577605968

REFEENCE(S)

Name	Dr. Md. Al Mehedi Hasan	Abu Sayeed
Organization	Rajshahi University of Engineering & Technology,	Rajshahi University of Engineering & Technology
Designation	Head of Dept. of CSE	Assistant Professor
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Relation	Research and Projects Supervisor	Thesis Supervisor