

UTSHAB KUMAR GHOSH

- <u>kumarutshab@gmail.com</u>
- in <u>www.linkedin.com/in/utshabkg</u>

www.github.com/utshabkg

www <u>utshabkg.github.io</u>

🗳 Dhaka, Bangladesh

OBJECTIVES

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, as an ML/AI Engineer. With the knowledge of competitive programming, full stack development and ML competitions, I want to gather experience from a based environment and to make some contributions to humankind.

WORK EXPERIENCE

P Dec 2022-

Jr. Software Engineer

Present

Nascenia Ltd. - Dhaka, Bangladesh

Department: Machine Learning & Full Stack Dev

- 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-

Mentor

Present

Code Studio Academy – Dhaka, Bangladesh

Department: Python, Machine Learning & Data Science

Oct 2020-

AI Research Assistant

Sep 2022

MyMedicalHUB Int. – Florida, USA (Remote)

Department: Machine Learning

- Gait Analysis Project.
- Sports Video and Image Analysis Project.
- Worked with AWS, Apace Server, Django REST API.

Dec 2017-

Smart Book Writer

Jan 2020

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
 Eature Engineering, Feature Selection & Extraction.

Frameworks, Library
 TensorFlow, Keras, OpenCV, NumPy, Pandas, Scikit-Learn,
 Tableau, Excel Spreadsheet.

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, 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 Ghosh¹, Abu Sayeed

Journal: Computers and Electrical Engineering (Q1, Available: https://lnkd.in/q8QZYqMt)

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 (Q2, Available: https://lnkd.in/gh8ZaeHK)

Field: Bioinformatics

• My Machine Learning Projects: Github Repository

ML Web App with Flask & AWS: Github Repository

Django Ecommerce Site (<u>Sessional Project</u>)

Supervisor: Asst. Prof. Barshon Sen, Rajshahi University of Engineering & Technology

• IMDB Clone (ReactJS Project)

Deployed: https://moviereview-utshabkq.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

• Al for Medical Diagnosis

Institute: deeplearning.ai

• Gold Medalist: National High School Programming Contest

• 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) _

Relation

Dr. Md. Al Mehedi Hasan Name **Abu Sayeed** Rajshahi University of Rajshahi University of Engineering & Organization Engineering & Technology, Technology Designation Professor **Assistant Professor** +880-1712 205 360 +880-1751 471 785 Mobile E-Mail mehedi_ru@yahoo.com abusayeed.cse@gmail.com

Thesis Supervisor

Research and Projects Supervisor