



# UTSHAB KUMAR GHOSH

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 Dhaka, Bangladesh

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

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|-----------|---|
| Jan 2017– | <b>Bachelor of Science: Computer Science &amp; Engineering</b> (CGPA: 3.22) |
| Oct 2022  | Rajshahi University of Engineering & Technology – Rajshahi, Bangladesh      |

### Work Experience

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|-----------------------|--|
| Dec 2022–<br>Present  | <b>Jr. Software Engineer</b><br><b>Nascenia Ltd.</b> – Dhaka, Bangladesh<br><b>Department:</b> Machine Learning & Full Stack Dev <ul style="list-style-type: none"><li><b>A2I Chatbot for Govt. sites:</b> 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 employ cutting-edge transfer learning to heighten chatbot responsiveness, showcasing our commitment to technological innovation. Our work on prominent platforms like Muktopaath and the MyGov underscores our dedication to pushing the boundaries of Bangla LLM research, contributing to the evolution of public service delivery in Bangladesh. It also includes Full Stack jobs like development of Flask API and custom Admin Panel for the client to ingest data, control and customize the chatbots.</li><li>A Project in Laravel Framework: Worked as Full Stack developer.</li><li>Building Components with JavaScript, React, PHP.</li></ul> |
| Feb 2023–<br>Present  | <b>Mentor</b><br><b>Code Studio Academy</b> – Dhaka, Bangladesh<br><b>Department:</b> Python, Machine Learning & Data Science  |
| Oct 2020–<br>Sep 2022 | <b>AI Research Assistant</b><br><b>MyMedicalHUB Int.</b> – Florida, USA (Remote)<br><br><b>Department:</b> Machine Learning <ul style="list-style-type: none"><li>Gait Analysis Project.</li><li>Sports Video and Image Analysis Project.</li><li>Worked with AWS, Apache Server, Django REST API.</li></ul>   |

### Technical Skills

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|---|---|
| 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

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| <b>Accurate Gait Recognition with Inertial Sensors using a New FCN-BiLSTM Architecture</b><br><b>Journal:</b> Computers and Electrical Engineering ( <b>Q1, Available:</b> <a href="https://lnkd.in/g8QZYgMt">https://lnkd.in/g8QZYgMt</a> ) |
| <b>Most Dominant Metabolomic Biomarkers Identification for Lung Cancer</b><br><b>Journal:</b> Informatics in Medicine Unlocked ( <b>Q2, Available:</b> <a href="https://lnkd.in/gh8ZaeHK">https://lnkd.in/gh8ZaeHK</a> )                     |

### Projects

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| <b>Bone Marrow Cell Classification</b> (Ongoing) |
| <a href="#">My Machine Learning Projects</a>     |
| <a href="#">ML Web App with Flask &amp; AWS</a>  |
| <a href="#">Django Ecommerce Site</a>            |
| <a href="#">IMDB Clone</a> (ReactJS Project)     |

### Competitions

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

### Certifications

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| <b>Deep Learning Specialization</b><br><b>Institute:</b> deeplearning.ai |
| <b>Applied Data Science Specialization</b><br><b>Institute:</b> IBM      |
| <b>Data Scientist Career Track</b><br><b>Institute:</b> Datacamp         |
| <b>AI for Medical Diagnosis</b><br><b>Institute:</b> deeplearning.ai     |

### Interpersonal Skills

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| Management   |
| Teamwork     |
| Multitasking |
| Leadership   |

### Languages

|         |
|---------|
| English |
| Bangla  |

### Interests

|                     |
|---------------------|
| Music & Instruments |
| Taekwondo           |