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UTSHAB KUMAR GHOSH

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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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* **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,** Data Analysis & Visualization, ANN, CNN,

**Machine Learning,** Supervised & Unsupervised Learning Algorithms,

**& Deep Learning** Feature Engineering, Feature Selection & Extraction.

* + **Frameworks, Library** TensorFlow, Keras, OpenCV, NumPy, Pandas, Scikit-Learn,

**& Tools** 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 Rifaat**1**, *Utshab Kumar Ghosh***1**, Abu Sayeed

**Journal:** [Computers and Electrical Engineering](https://www.sciencedirect.com/journal/computers-and-electrical-engineering) (**Q1**, **Available:** <https://lnkd.in/g8QZYgMt>)

**Field:** Biometrics

* **Most Dominant Metabolomic Biomarkers Identification for Lung Cancer**

**Authors:** *Utshab Kumar Ghosh1*, Fuad Al Abir, Nahian Rifaat, S.M. Shovan, Abu Sayeed, Md. Al Mehedi Hasan

**Journal:** [Informatics in Medicine Unlocked](https://www.journals.elsevier.com/informatics-in-medicine-unlocked) (**Q2**, **Available:** <https://lnkd.in/gh8ZaeHK>)

**Field:** Bioinformatics

* **My Machine Learning Projects:** [Github Repository](https://github.com/utshabkg/ML_Competition-AND-Practice)
* **ML Web App with Flask & AWS:** [Github Repository](https://github.com/utshabkg/end-to-end-mlproject-bootcamp)
* **Django Ecommerce Site** ([Sessional Project](https://github.com/utshabkg/Ecommerce_site_Django))

**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)](https://www.kaggle.com/c/tensorflow-great-barrier-reef/leaderboard)
* **Kaggle PetFinder.my - Pawpularity Contest** *(Image Dataset)*

[Top 13% (443th out of 3545)](https://www.kaggle.com/c/petfinder-pawpularity-score/leaderboard)

* **DataHack Traffic Forecasting** *(Time Series Dataset)*

[Time Series Forecasting (Running)](https://datahack.analyticsvidhya.com/contest/practice-problem-time-series-2/#LeaderBoard)

* **HackerEarth ML Challenge: Fast, Furious and Insured** *(Image & Tabular Dataset)*

[Classification & Regression (86th out of 2796)](https://www.hackerearth.com/challenges/competitive/hackerearth-machine-learning-challenge-vehicle-insurance-claim/leaderboard/predict-the-condition-and-insurance-amount-21-fb647347/)

* **HackerEarth ML Challenge: A Fine Windy Day** *(Tabular Dataset)*

[Regression (54th out of 2034)](https://www.hackerearth.com/challenges/competitive/hackerearth-machine-learning-challenge-predict-windmill-power/leaderboard/predict-the-power-kwh-produced-from-the-windmills-8-f055f832/)

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 CURRCULAR ACTIVITES \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* **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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

REFEENCE(S) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Name** |  | **Dr. Md. Al Mehedi Hasan** | **Abu Sayeed** |
| **Organization** |  | Rajshahi University of Engineering & Technology, | Rajshahi University of Engineering & Technology |
| **Designation** |  | Professor | Assistant Professor |
| **Mobile** |  | +880-1712 205 360 | +880-1751 471 785 |
| **E-Mail** |  | mehedi\_ru@yahoo.com | abusayeed.cse@gmail.com |
| **Relation** |  | Research and Projects Supervisor | Thesis Supervisor |