

Ayub Alam

AI & ML Engineer

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Open to Remote ◇ Open to Relocate ◇ [LinkedIn](#) ◇ [GitHub](#) ◇ [Medium](#)

SUMMARY

Eager to apply my foundational knowledge in **Artificial Intelligence, Machine Learning, and Deep Learning** to contribute effectively to innovative projects. With **2 years** of experience, I am seeking a challenging position where I can leverage my skills to drive benefits for the organization using advanced AI and ML technologies.

SKILLS

Programming Languages : Python, C, R, core java

Skills : Machine Learning, Deep Learning, Recurrent Neural Network (RNN), Artificial Intelligence, LSTM, Time Series Analysis, Data Visualization, NLP, Computer Vision, Feature selection, data extraction, yolo, data visualization, Annotation

Frameworks and Libraries : Tensorflow, Numpy, keras, pandas, Scikit-learn, OpenCV, Matplotlib, seaborn, nltk, FCNN, CNN, ultralytics, streamlit, css, html, CSS, Flask

Database and Data Management : OracleDB, ETL, Data Pre-Processing, Data Mining, SQL, SQL lite

Development Tools and Environments : Visual Studio code, Pycharm, Spyder, Eclipse, Jupyter notebook, kaggle, google colab

Interests Playing / watching cricket, Reading Books

Languages Urdu, Hindi, English

EXPERIENCE

Machine learning Intern

Jun '23 — Aug '23

IIIT Guwahati

Guwahati, India

- I have experience in analyzing time-series data, including stock, climate, and iris datasets, using advanced techniques such as Recurrent Neural Networks (RNN) and Long Short-Term Memory (LSTM) models. Additionally, I have developed custom models for this purpose. In one project, I successfully reduced prediction loss in stock prices by implementing Extreme Learning Machine (ELM) algorithms.

AI /ML intern

Jan '24 — Aug '24

Think Again Lab

Kolkata, India

- As an AI/ML intern at Think Again Lab, I play a pivotal role in developing and implementing AI solutions that address complex challenges and foster innovation. I collaborate closely with a team of AI experts to design, develop, and deploy advanced AI models and algorithms

ML Developer

Sep '24 — Present

kotai Electronics

Kolkata, India

As a **Machine Learning Developer**, I design, develop, and deploy machine learning models to solve real-world problems. My responsibilities include data preprocessing, feature engineering, and optimizing models using frameworks like TensorFlow, PyTorch, and Scikit-Learn. I deploy models as APIs using Flask/FastAPI and integrate them into applications while ensuring scalability and performance. I also build and automate ML pipelines using MLOps tools like Docker and Kubernetes. Collaborating with cross-functional teams, I apply ML techniques in areas like NLP, Computer Vision, and Predictive Analytics. Additionally, I monitor model performance, retrain models when necessary, and continuously improve accuracy and efficiency.

PROJECTS

Ocular disease Regonition system, The Neotia University [Link](#)

Nov '22 — Jun '23

- Leveraged transfer learning with pre-trained convolutional neural networks (VGG16, VGG19, InceptionV3, ResNet50) to develop a system for ocular disease detection. Achieved the highest accuracy with InceptionV3, demonstrating its potential to assist medical professionals and improve patient care.
- Image processing**
- Data Analysis**
- CNN**
- Image classification**
- feature Engineering**
- Deep learning**

Drishti (A virtual eye for Blind people), Group project [Link](#)

May '23 — Feb '24

- It's virtual eye project based on Deep learning and IOT for helping visually impaired people move in the environment without the help of others
- Image Caption**
- Blip Transformers model**

- **Artificial intelligence**
- **Deep Learning**

Fall detection using custom dataset, Think Again Lab [Link](#) Jan '24 — Jan '24

- Developed fall detection system using custom data and YOLOv8n pre-trained weights, enhancing safety and security in real-time environments.
- **Opencv**
- **Yolov8n**
- **Streamlit**

Number of Cross Car Counting On Road, Think Again Lab [Link](#) Feb '24 — Feb '24

- The project's output includes a visual representation of the road with the number of cars crossing the specified point displayed on the screen. This system can be used for traffic monitoring, congestion analysis, and road safety enhancement purposes.
- **Yolo, Opencv**

Selective Person Tracking, Self [Link](#) Feb '24 — Mar '24

- The Single-person_tracker project aims to develop a real-time tracking system for monitoring and tracking a single person in a video stream.
- **Opencv**
- **VST tracker**
- **KCF tracker**

EDUCATION

B.Tech in Computer Science Engineering Spl (AI & ML), The Neotia University Aug '21 — Jul '24
Kolkata, India

- **CGPA (8.65 /10)**
I am pursuing a B.Tech in Computer Science Engineering with a specialization in Artificial Intelligence and Machine Learning, focusing on the theoretical foundations and practical applications of AI and ML technologies. The program equips students with the skills and knowledge needed to develop intelligent systems, analyze large datasets, and solve complex real world problems using AI and ML techniques

Diploma in Electronics and Communication Engineering, Maulana Azad National Urdu University Hyderabad , India
(CGPA - 9.65/10)

- I have done Diploma in Electronic and Communication Engineering. This course of study focuses on the principles and applications of electronic circuits, communication systems, and digital electronics. Students learn about the design, analysis, and troubleshooting of electronic devices and communication networks. The program equips students with the skills and knowledge needed to work in the field of electronics and communication engineering.

VOLUNTEERING

EVENT MANAGEMENT HEAD, TECHNICHE CLUB The Neotia University • Kolkata

CERTIFICATIONS

[Successfully completed free online course introduction to Big Data and Hadoop](#), Great Learning Jan '21

[C programming in Hindi](#), Great Learning Jul '21

[Data Analysis with Python](#), Cognitive Class Nov '21

[Python for Machine learning](#), Great Learning