Mausam Gurung

Email: mausaam.gurung593@gmail.com
LinkedIn   GitHub   Substack

Skills

- **Programming Languages:** Python, C++, C, SQL
- **Frameworks:** TensorFlow, PyTorch, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Django
- **Technologies:** Deep Learning, Computer Vision, Docker, Git, MATLAB
- **Languages:** Nepali (Native), English (Professional Proficiency)

Experience

OLE Nepal — Non-profit Organization
- **Robotics Associates**   07/2024 – 02/2025
- **Robotics Fellowship**   04/2024 – 07/2024

Developed and implemented robotics curricula in 10 government schools in Lalitpur, trained over 100 students and teachers, set up labs, conducted workshops, and organized the Yala Mayor Cup 2025 robotics competition.

    Lab Assistant of Microprocessor — Kathmandu Engineering College   07/2024 – 02/2025

AI Fellowship

Fusemachine
Micro degree in Artificial Intelligence   05/2025 – Present

Publication

Machine Learning in Modern Drug Discovery: Applications, Advances, and Future Horizons, KEC Journal of Science and Engineering, 2025, M. Gurung, S. Shrestha
Comprehensive review of modern drug discovery and development using ML model. [Paper]

    Stock Market Prediction in the Nepali Stock Market using Machine Learning, KEC Journal of Science and Engineering, 2024, M. Gurung, P. Neupane, S. Shrestha
Implemented BPNN, LSTM, and GRU to forecast stock prices. [Paper]

Projects

- **Automatic Tomato Harvesting with Machine Learning:** Used YOLOv4-tiny for real-time detection and integrated a 6-DOF robot arm for automated plucking.
- **Smart Greenhouse for Horticulture:** Developed an Arduino-based irrigation system in C++. Integrated sensors for climate and soil monitoring.
- **Sample Dataset Analysis Using Classification:** Employed WEKA, Naïve Bayes, Random Forest, K-means, Hierarchical clustering for analysis.
- **Python Projects:** Built a password generator, BMI calculator, and voice assistant.

Education

- **Tribhuvan University — Institute of Engineering — Kathmandu Engineering College**
  Bachelor in Electronics, Communication & Information Engineering   11/2019 – 02/2025
  Grade: 73%
- **National Examination Board — Everest Innovative College**   07/2017 – 04/2019
  CGPA: 3.51
- **Mechi St. Mary's English Boarding School**   01/2006 – 06/2016
  GPA: 3.55

Certifications

- **Qiskit Global Summer School 2024**   08/2024
  Python, Qiskit, Quantum Applications
- **Neural Network and Deep Learning**   10/2024
  TensorFlow, Keras
- **Unsupervised Learning, Recommenders, Reinforcement Learning**   05/2024
- **Advanced Learning Algorithms**   05/2024
- **Supervised Machine Learning**   05/2024

Training and Participation

- **Electronic Project Club (EPC)** – Hardware Lead   04/2021 – 03/2024
- **TEDx Jamal — Idea's Worth Spreading**   02/2022
- **Helping Hand — Volunteer Initiative**   07/2023
- **Art of Living — Yes!+ Course**   11/2019
- **YOGA — Course**   11/2019