



Mejan Lamichhane

Undergrad in Computer Engineering
Recently graduated
Pulchowk Campus
IOE, Lalitpur

+977-9767492122

[Portfolio site](#)

mejan.lamichhane15@gmail.com

[Github-Mejan](#)

[Linked In- Mejan](#)

EDUCATION

Degree/Certificate	Institute/Board	CGPA	Year
B.E. Computer Engineering	TU/IOE	(Current)	2021-Present
Hetauda School of Management	NEB	3.79	2018-2020
SEE	NEB Board	3.80	2018

COURSES AND CERTIFICATIONS

- **Core Curriculum Courses:** Computer Networks, Distributed Systems, Security Operations and Fundamentals, Artificial Intelligence (AI), Probability and Statistics, Data Structures and Algorithms (DSA), Software Engineering, Object Oriented Analysis and Design, Theory of Computation, Discrete Structure, C and C++ Programming, Microprocessor, Computer Organization and Architecture (COA), Engineering Mathematics
- **Supervised Machine Learning: Regression and Classification:** Linear Regression, Regularization to Avoid Overfitting, Logistic Regression for Classification, Gradient Descent, Supervised Learning
- **Advanced Learning Algorithms:** Tensorflow, Artificial Neural Network, Model Development and Training, Xgboost, Tree Ensembles, Convolutional Neural Network
- **Unsupervised Learning, Recommenders, Reinforcement Learning:** Anomaly Detection, Unsupervised Learning, Reinforcement Learning, Collaborative Filtering, Recommender Systems
- **Django Web Framework - Meta:** Django view, models, templates, forms, Django rest framework, JWT

RELEVANT PROJECTS

- **Behavioral-based Network Intrusion Detection System*** *Final year project*
 - Developed a system to detect network intrusions using ML/DL models, balancing accuracy and inference time. The pipeline includes data preprocessing, model training, and deployment. Incoming network traffic is parsed and processed through an ML model, with predictions served via Elasticache Pub/Sub. Evaluated multiple architectures to optimize performance.
 - Tools and technologies used: Python, PyTorch, PyShark, Scikit-learn, Matplotlib, Numpy, Pandas, SQS
- **Image-Gen** *Patternverse - Hackathon*
[Github](#)
 - Used stable diffusion to create variations of carpet patterns from single input image.
 - Created a LLM enhanced pipeline for dynamic prompting and image generation.
 - Tools Technologies Used: Python, Pytorch, Hugging Face Transformers, Numpy, Matplotlib
- **Iris Recognition System** *April 2024*
[Github](#)
 - Developed a comprehensive iris recognition system integrating a Siamese Neural Network with pre-trained VGG16 and ResNet50 CNNs for feature extraction, coupled with a Django-based web interface enabling users to upload iris images and verify their identity.
 - Tools and technologies used: Python, TensorFlow 2.X, Django, Django REST Framework, OpenCV, Scikit-learn, Matplotlib, Numpy, Pandas, SQLite
- **Little Lemon Restaurant API** *July 2024*
[Github](#)
 - Developed a RESTful API for restaurant management using Django and Django REST Framework, enabling user role-based functionalities for admins, managers, delivery crew, and customers, including menu management, order processing, and cart operations.
 - Tools and technologies used: Python, Django, Django REST Framework, SQLite
- **GPT from Scratch** *April 2025*
[Github](#)
 - This repository contains the code and resources to build a GPT (Generative Pre-trained Transformer) model from scratch, following the book "Build a Large Language Model (From Scratch)" by Sebastian Raschka. The GPT architecture is a decoder-only transformer model, widely used for natural language generation tasks.
 - Tools and technologies used: Python, PyTorch, Tiktoken
- **Restricted Boltzmann Machine Implementation** *Feb. 2024*
[Github](#)

- This repository contains an implementation of a Restricted Boltzmann Machine (RBM), a type of artificial neural network used for unsupervised learning tasks such as dimensionality reduction, feature learning, and collaborative filtering.
- Tools and technologies used: Python, TensorFlow, Matplotlib, Numpy

- **Tower of Hanoi simulation**

Aug. 2023

[Github](#)

- This repository contains an implementation of a 3d tower of hanoi problem utilizing Beizer curves.
- Tools and technologies used: C++, OpenGL

SKILLS

- **Programming Languages:** Python, C/C++
- **Frameworks:** Tensorflow, Django, Scikit-Learn, OpenGL
- **Developer Tools:** Git, Google Colab, Visual Studio, VS Code, MS-SQL
- **Non Technical:** Communication, Problem-solving, Collaboration, Product and Time Management
- **Areas of Interest:** Deep Learning, Computer Vision, Data Engineering, Back-end development