Garima Paudel

amiragpaudel229@gmail.com Garima Paudel Garima Paudel

Dedicated and consistent learner in AI, with hands-on experience in deep learning and natural language processing, focused on developing innovative solutions for real-world challenges.

Experience

2024 Apr – Present **AI Fellowship,** Fusemachines.

- Gained hands-on experience in deep learning and NLP by developing a Plagiarism Detection System for the Nepali language.
- Learned and applied advanced AI/ML techniques on real-world projects, enhancing practical skills in model implementation.

Education

2019 – 2024 **B.E. Computer, United Technical College** CGPA - 3.92

2017 – 2019 **+2, Science, SkyRider College** CGPA - 3.36

Projects

Fire Detection Project – `Link to Project`

- Integrated NASA's satellite-derived active fire data to detect fire outbreaks.
- Applied computer vision techniques for fire detection.
- Engaged the community and provided tools for historical data analysis to improve early detection, rapid response, and overall fire management.

Plagiarism Detection for Nepali Language – (Ongoing Fusemachines AI Fellowship Project)

- Developing a plagiarism detection system using NLP techniques for the Nepali language.
- Fine-tuning BERT-based models and applying the Rabin-Karp algorithm to detect similar content in Nepali text.

Text Summarization Project-- `Link to Project`

- Worked on summarizing large textual content using natural language processing techniques.

Academic Projects

Heart Disease Prediction using Machine Learning Algorithms (6th Semester Mini Project)-- `Link to Project`

- Performed EDA and data preprocessing on the dataset.
- Applied 5 ML algorithms (Logistic Regression, SVM, KNN, Random Forest, and Decision Tree) to train the model.

- Selected the model with the highest accuracy for deployment.

Automatic Number Plate Detection and Recognition (8th Semester Major Project)-- `Link to Project`

- Collected and annotated a dataset of nearly 1000 images of license plates.
- Performed data preprocessing, augmentations, and trained a YOLOv9 model.
- Employed EasyOCR for character recognition.

Skills

Programming Languages	Python, Structured Query Language (SQL)
Data Analysis and Visualisation	Pandas, Numpy, Matplotlib, Seaborn
Machine Learning	Concept of ML algorithms
Deep Learning	Neural Networks using PyTorch
Natural Language Processing	Preprocessing, Vectorization, RNNs, LSTM, GRUs, Transformers
Version Control Tools	Familiarity with Git and GitHub

Miscellaneous Experience

Awards, Achievements and Position of Responsibility

2023	**Global Nominee**, NASA Space Apps Challenge 2023
	First Runner Up, OSM Hackfest 2023.
2023 - 2024	**Secretary**, United Tech Club.
2023	**Organizing Committee Member**, Utech Hackathon Alpha.