

Rupesh Ghimire

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Pokhara, Nepal

SKILLS AND TOOLS

Programming Languages: Python, C, C++, JavaScript

Libraries & Frameworks: Django, Pytorch, Numpy, Pandas, Matplotlib, Sci-kit Learn, Flask, Tensorflow, React

Certifications: Machine Learning Specialization, Advanced Django, Transfer-Learning for NLP with tfHub

Database Systems: MySQL

Tools: Git, Github, VSCode, Jupyter Notebook, Google Colab, Canva, Figma, MS Office

ACADEMIC PROJECTS

Sentiment Analysis in Nepali Sentence using NepBERTa

Fusemachines DL Final Project I (Jun 2023- Aug 2023)

- Learned about data pre-processing for NLP tasks in BERT like tokenization, stopword removal, stemming, lemmatization, and so on.
- Utilized Transfer learning using a model from HuggingFace.
- Obtained 76% accuracy
- Can be utilized for testing real-world news titles from Nepali news portals.

LIVER CIRRHOSIS PREDICTION

Fusemachines ML Final Project I (Feb 2023- Apr 2023)

- Performed multiclass classification in a 4-person group using various classifiers to predict the stage of patients' liver.
- Obtained 67% recall even on a small and unbalanced dataset after data manipulation.
- Learned to deploy on Flask.

BCT Study Room

Software Engineering Project I (May 2022- Jul 2022)

- Learned to use advanced Django integrating authentication and authorization.
- Used Tailwind CSS for designing the user interface.
- Coordinated with cross-functional team members to make sure project milestones were fulfilled.
- Worked in Iterative model of software development process.

BookSuggestor

DBMS Project

- Leveraged RAW SQL for database management using MySQL in Django bypassing Django's ORM.
 - Learnt MySQL and utilized it optimally for the project to earn A+ grade in the project.
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PERSONAL PROJECTS

Deep Learning Projects

- Learned about Transfer Learning and its implementation for NLP using TensorFlowHub.
- Completed projects in Pytorch including House Price Prediction (Regression), Time Series Forecasting using LSTM, MNIST number Prediction, and so on.
- Implemented Transformer Architecture and ResNet from scratch in Pytorch by learning from various articles and tutorials.
- Image Caption Generation using Pytorch

Machine Learning Projects

- Completed different ML projects with EDA for experimenting and learning.
- Consists of projects like Book Recommender System (Collaborative Filtering), House Price Prediction (Regression), Spam Email Classification, Weather Classification/Prediction.

PROFESSIONAL EXPERIENCE

Fusemachines

Jan 2023 - Present

AI Fellowship Scholar

- Acquired comprehensive knowledge of machine learning principles, progressing from fundamentals to advanced concepts.
- Developed a strong foundation in deep learning, mastering key algorithms and architectures such as CNN, RNN, attention mechanisms, and GANs.
- Currently advancing skills in Natural Language Processing (NLP) and Computer Vision, showcasing a commitment to staying at the forefront of emerging technologies.
- Translating theoretical knowledge into practical applications, fostering a results-oriented approach to problem-solving, and proving an ability to adapt and learn quickly has prepared me to readily contribute to innovative projects.

Innovative Computer Engineering Students' Society

Jan 2023 - Feb 2023

Django Mentor

- Developed a systematic curriculum covering basic to advanced Django topics, including MVC architecture, ORM, Templates, and Rest Framework.
- Employed a combination of theoretical knowledge and hands-on implementation, ensuring a well-rounded comprehension of Django concepts and equipping them with the skills necessary for Django development.

EDUCATION

Pashchimanchal Campus, IOE, TU

Bachelor in Computer Engineering
2019-Present

Nepal Mega College

Bachelor in Computer Engineering
2019-Present

LANGUAGES

Nepali

Native

English

Fluent / Professional

Hindi

Conversational

INVOLVEMENTS

Hult-Prize 2021

Regional Summit Competitor

- To build viable food enterprises to create jobs, stimulate economies, reimagine supply chains, and improve outcomes for 10,000,000 people by 2030.

OnCampus: 1st Runner Up

Regional Summit: Participant via Wildcard

NAAMI | ANAIS-Student Ambassador

Apr 2023 - Jun 2023

- Helped NAAMI to make the 4th Annual Nepal AI School successful.
- Learned about community building and event management.

ADDITIONAL INFORMATION

Golden Jubilee Scholarship Scheme - awarded by the Embassy of India, Kathmandu for undergraduate academics

All Rounder Student Award - awarded by school for good performance in sports, ECA and academics.