NIRAJAN BEKOJU

Computer Engineering Student

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TECHNICAL SKILLS

- **Data Analysis and Visualization:** numpy, pandas, matplotlib, seaborn, plotly, cufflinks
- **Machine Learning and Deep Learning:** scikit-learn, Tensorflow, Keras, Pytorch, Tensorboard
- Computer Vision **(OpenCV Python)** and NLP
- **Cloud Computing:** AWS
- **Web Designing:** HTML, CSS, Bootstrap, React JS, three JS
- **Backend:** Flask, Django and Django Rest Framework
- **Programming Languages:** Python, C, C++, Julia, Matlab
- **Version Control:** Git, Github, Gitlab, Bitbucket
- **Database:** Postgresql, MySQL
- Data Structures and Algorithms
- Sound knowledge of Software Development Life Cycle
- Object Oriented Programming
- Report making and Documentation using **Latex**
- Competitive Programming

ACHIEVEMENTS

- KU IT Meet 2023 - AI Competition - Won LLM and Data Extraction Category
- Docsumo Dataverse 2023 - Won Data Insights Category
- First Position - Khwopa Manual Akhada Robot Competition 2018

EDUCATION

Bachelor in Computer Engineering

Pulchowk Engineering Campus

Nov 2019 – April 2024 Pulchowk, Lalitpur

Microdegree, Artificial Intelligence

Fuse Machines

Jan 2023 – Jan 2024

CERTIFICATIONS

- Machine Learning by Stanford University on Coursera
- Neural Networks and Deep Learning by DeepLearning.AI on Coursera
- Convolutional Neural Networks on Coursera
- Natural Language Processing Specialization by DeepLearning.AI on Coursera
- AWS Academy Graduate - AWS Academy Cloud Architecting
- Bayesian Statistics : From Concept to Data Analysis by University of California, Santa Cruz on Coursera
- Web Designing Course from Broadway Infosys (Certificate No : B9628)

PROJECTS

Nepali Language Processing

- Developed Probabilistic, Sequential and Transformer based Nepali Language model for text generation
- Developed Nepali Spelling correction system based on context

Wine Quality Classification

- Study of various physio chemical properties of wine to classify their quality | Handle imbalanced datasets | Machine learning experiments
- **Technologies Used:** numpy, pandas, seaborn, matplotlib, scikit-learn, django, react

Topic Classification | Dataverse 2023

- Arxiv Topic Classification
- **Technologies Used:** Tensorflow, Keras, numpy, pandas, seaborn, matplotlib, scikit-learn

Staff Management System

- Managed the staff during lockdown period.
- Implemented attendance | salary | notifications | notice management
- **Technologies Used:** Django Rest Framework, React

Malignant and Benign Tumor Diagnosis Analysis and Prediction

- Analyzed and visualized data on Breast Cancer from Kaggle and predict whether the tumor is malignant or benign
- **Technologies Used:** pandas, matplotlib, seaborn, sk-learn and keras
- **Result:** Achieved 97.90 % validation accuracy

Epidemic Modeling with SIR model

- Study the spread of epidemic diseases using the SIR model.
- **Technologies Used:** OPENGL C++ for graphics, pandas and matplotlib for data analysis and visualization.

Fourier Transform Drawing

- Draw any 2D closed diagrams using DFT and to understand discrete fourier transform
- **Technologies Used:** OpenCV-Python3 for Image Processing to generate image coordinates and C++, SFML Library for graphics.