NIRAJAN BEKOJU

Computer Engineering Student

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TECHNICAL SKILLS

- Programming Languages: Python, C, C++, Julia, Matlab
- 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
- 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 Category
- Docsumo Dataverse 2023 Won Data Insights Category
- First Position Khwopa Manual Akhada Robot Competition 2018

EDUCATION

Bachelor in Computer Engineering Pulchowk Engineering Campus

Mov 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.Al 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)

WORK EXPERIENCE

Freelance - Nepali Sign Language Recognition

- Implemented Spatial-Temporal Transformer Encoder and Standard Transformer Decoder for Sign Language Recognition
- Achieved 60% Word Error Rate in the test dataset.
- **Technologies Used:** Pytorch, Tensorboard, Mediapipe, Transformer

Freelance - Staff Management System

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

PROJECTS

Transformer Based Model for Nepali Language Generation and Spelling Correction

- Achieved 110 perplexity on test data of Oscar Nepali Corpus
- Implemented Noisy Channel Model for Spelling correction
- Deployed on Hugging Face

Wine Quality Classification

 Study of various physio chemical properties of wine to classify their quality | Handle imbalanced datasets | Machine learning experiments

Topic Classification | Dataverse 2023

- Developed Arxiv Topic Classifier model and paper recommendation system
- Technologies Used: Tensorflow, Keras, numpy, pandas, seaborn, matplotlib, scikit-learn

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
- Result: Achieved 97.90 % validation accuracy

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.