

# 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
- Computer Vision (**OpenCV Python**) and NLP
- **Cloud Computing:** AWS
- **Web Designing:** HTML, CSS, Bootstrap, React JS, three JS
- **Backend:** Python, Flask, Django and Django Rest Framework
- **Programming Languages:** 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

## EDUCATION

Bachelor in Computer Engineering

**Pulchowk Engineering Campus**

📅 2019 - 2024    📍 Pulchowk, Lalitpur

Microdegree, Artificial Intelligence

**Fuse Machines**

📅 Jan 2022 - Jan 2023

## 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.