Kabiraj Rana

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https://github.com/kabirajrana | https://linkedin.com/kabirajrana

SKILLS

- **Languages:** Python, SQL, JavaScript, HTML, CSS
- **Tools & Frameworks:** Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, XBoost, Regular Expressions, Tableau, Git & Github, MySQL, PostgreSQL, Flask, Django, RESTful APIs, AWS.

EDUCATION

- Diploma in Computer Engineering | Tribhuvan SEC — *19 May 2024*
- SEE | Tribhuvan J.SEC — *10 June 2020*
- *Computer Science with AI* — *current running*

ACADEMIC PROJECTS

- **Brain Drain and Youth Migration from Nepal:**
  Built ML models and performed data analysis to study the impact of brain drain and youth migration using Pandas, Scikit-learn, and visualization tools.

- **Phishing Website Detection:**
  Developed ML model to detect phishing websites based on URL features using Random Forest; deployed via Flask API.

- **School Fee Analysis in Nepal (Private School):**
  Analyzed private school fee structures across Nepal using data visualization and predictive models to identify trends and correlations using Pandas, Matplotlib, and Scikit-learn.

- DSA Visualizer:

Interactive Data Structures & Algorithms Visual Learning Platform

An interactive web application that visually demonstrates how core data structures and algorithms work in real time — designed to make abstract concepts intuitive and engaging.

CERTIFICATIONS

- **Data Science with Python| Broadway Infosys**
  Ongoing, practical ML model building, real-world project implementations.

- **Data Science in Python | Coursera**

Learned Python-based data analysis using NumPy and Pandas for efficient data manipulation and preprocessing.
Applied data wrangling techniques to clean, transform, and analyze real-world datasets for actionable insights.

- **Machine Learning A-Z | Udemy**
  Completed a comprehensive end-to-end machine learning program covering the full ML lifecycle — from data preprocessing and feature engineering to model training, evaluation, and deployment.

- **Deep Learning with PyTorch** – Udemy
  Built CNN-based image classification and handwritten digit recognition models with optimized training pipelines. Developed stock/price prediction neural networks applying dropout, batch normalization, and advanced optimizers to improve accuracy and generalization.

HOBBIES & INTERESTS

- AI research, Reading ML research paper, traveling, exploring new technologies.