Sangam Paudel

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PROFESSIONAL SUMMARY

Engineering Student | Data Scientist | AI/ML Enthusiast

AI and machine learning enthusiast with a strong foundation in data science. Skilled in Python, data analysis, and model development, with hands-on experience in building and evaluating real-world ML solutions. Passionate about solving problems through data-driven approaches and continuously expanding knowledge in the AI domain.

EDUCATION

Pulchowk Campus, Tribhuvan University
Bachelor in Computer Engineering *Jan 2024 – Jan 2028*
Sagarmatha Secondary School
Higher Secondary Education (+2) *Mar 2021 – Mar 2023*

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C/C++, Bash/Shell scripting
Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib
Data Visualization & Databases: Seaborn, Plotly, MySQL, PostgreSQL, MongoDB
Tools & Deployment: Git, GitHub, Jupyter Notebooks, Docker, Streamlit, Kubernetes, REST APIs, VS Code

RELEVANT EXPERIENCE

Code for Nepal *May 2025 – Present*
Data Science Fellow
- Participating in a fellowship focused on Python, data analysis, SQL, and machine learning.
- Working with tools like pandas, scikit-learn, and Jupyter Notebooks on hands-on projects.

Machine Learning Intern *Feb 2025 – Present*
Omdena
- Collaborated with a global team to build scalable, fair, and accurate machine learning pipelines.
- Developed and evaluated ML models using Python, Pandas, and Scikit-learn for a real-world AI challenge.

PROJECTS

IMDb Sentiment Analysis App ⧉
- Built a Streamlit app to classify live IMDb reviews using a fine-tuned DistilBERT model.
- Scraped real-time reviews with Selenium and processed them for sentiment prediction.
- Deployed the app on Railway and Azure Kubernetes Service (AKS) for scalable access.

Air Quality Forecasting in Kathmandu ⧉
- Conducted exploratory data analysis (EDA) to understand patterns and trends in the data.
- Applied predictive modeling techniques to forecast air quality index (AQI) levels in Kathmandu, helping address urban pollution monitoring.
- Enhanced skills in data analysis, machine learning, and effective teamwork throughout the project.

Nepal Premier League 2024 Analysis ⧉
- Developed a detailed dataset for Nepal Premier League 2024, including match stats, player rankings, and scores.
- Conducted data analysis to uncover insights and trends in player and team performance.
- Demonstrated skills in sports analytics and data-driven storytelling.

COVID-19 Exploratory Data Analysis ⧉
- Performed exploratory data analysis (EDA) on COVID-19 datasets to identify trends and patterns.
- Visualized key metrics such as cases, recoveries, and fatalities over time and regions.
- Provided actionable insights to support understanding of pandemic dynamics.

ACHIEVEMENTS

- Ranked 9th nationwide in IOE (Institute of Engineering)
- Achieved 2× Kaggle Expert in Notebook and Discussion tiers

SOFT SKILLS & LANGUAGES

Soft Skills: Problem Solving | Critical Thinking | Team Collaboration | Communication
Languages: English (Fluent), Nepali (Native), Hindi (Conversational)