



Puspha Raj Pandeya

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WORK EXPERIENCE

Freelance Data Analytics Consultant

Dekods Inc. [Jan 2023 – Feb 2023]

City: Kathmandu

Country: Nepal

- Cleaned and processed 100,000 record files for a UNICEF initiative to upgrade various infrastructures in Nepal's rural communities.
- Exploratory data analysis was carried out using Pandas and Python, and data cleaning and transformation scripts were created.
- Created and implemented a PowerBI dashboard for the UNICEF project team to display important metrics. Used DAX and best practices in visualization to deliver insights into rural families.

Associate Machine Learning Engineer

Eydean Inc. [May 2022 – Jan 2023]

City: Kathmandu

Country: Nepal

- Contributed to the development of a Logistic Management System aimed at improving product delivery by finding the shortest path and using resources efficiently. Dijkstra algorithm was used to find the shortest path, and a navigation system was built using open street map.
- Developed a chatbot for an e-commerce client using NLP and neural networks.
- Created a recommendation system using content and collaborative filtering methods using techniques like cosine similarities and KNN.
- Developed sales forecasting models using time series analysis techniques like ARIMA and SARIMA.
- Designed and implemented a data pipeline using the ELK stack and Python for creating a sales analysis dashboard in Kibana.
- Designed and implemented efficient ETL processes to integrate data from multiple databases into comprehensive data warehouses, enabling faster and more accurate data analysis and visualizations.
- Designed, built, and containerized scalable backend systems for multiple projects using Flask, FastAPI, and MongoDB, resulting in efficient and easily maintainable applications.
- Migrated data from SQL to NoSQL databases using SQL and Pandas for denormalization and cleaning.

Junior Software Developer

Eydean Inc. [Nov 2021 – Apr 2022]

City: Kathmandu

Country: Nepal

- Worked as a junior backend developer on multiple projects using Flask to build scalable and efficient applications.
- Performed data analysis for ERP clients using Python, Pandas, and data visualization libraries to provide valuable insights for business decisions.
- Created data visualization dashboards using Metabase to communicate data-driven insights to stakeholders in a clear and understandable manner.
- Developed a functional map with navigation using Leaflet JS, osmnx, networkx, and folium.

Machine Learning Intern

Technocolabs Softwares [Oct 2021 – Nov 2021]

Country: India

- Conducted exploratory data analysis and implemented NLP techniques to predict song skips on Spotify based on acoustic data using LSTM and LightGBT algorithms.
- Conducted extensive data analysis on Spotify's acoustic data to train and fine-tune the models.
- Achieved an accuracy rate of 86% in predicting song skips.

EDUCATION AND TRAINING

Bachelors in Computer Engineering

Nepal College of Information Technology, Pokhara University [Sep 2017 – Aug 2022]

Address: Lalitpur (Nepal)

Website: <https://ncit.edu.np/>

LANGUAGE SKILLS

Mother tongue(s): **Nepali**

Other language(s):

English

LISTENING B2 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Hindi

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DIGITAL SKILLS

Programming

Python / MongoDB / Git / Docker / Flask / FastAPI / Django / MySQL / Postgresql

Data Science

Machine learning Algorithms / Computer Vision / NLP / Microsoft PowerBI

Data Engineering

ETL pipelines / ELK stack / Airflow / Kafka / Big Data Technologies