RAYAL KHATRI

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Portfolio

EXPERTISE

Data Analytics

Tableau

PowerBI

Seaborn

Pandas

Numpy

Machine Learning

Scikit-learn

TensorFlow

Pytorch

Database

MYSQL

PostgreSQL

Development

Django

Flutter

FastAPI

EDUCATION

COMPUTER ENGINEERIING
Lalitpur Engineering College
Chakupat Lalitpur

+2 IN SCIENCE
Bluebird College
Kumaripati Lalitpur

SEE
Little Angles' School
Hattiban, Lalitpur

PROFILE

Computer engineer specializing in machine learning, app development, and data analytics. Experienced in leading teams and delivering end-to-end ML projects with modern frameworks and tools. Seeking a role for professional growth through collaboration with experienced team members.

PROFESSIONAL EXPERIENCE

DATA SPECIALIST   SHRAWAN 2080 – PRESENT
CloudFactory

Responsible for analyzing and processing roof data—including area calculations, flashing details, extensions, dormers, and structural features—to generate accurate 3D roof models for company projects. Support real-time labeling and ensure data quality for use in insurance, solar, and construction platforms.

- Improved model accuracy to 80%+ within 2 months, exceeding project benchmarks.
- Promoted to Reviewer within one year based on performance.
- Worked overtime during high-volume periods to meet project deadlines.
- Awarded company trophy for exceptional commitment and customer satisfaction.

PROJECTS | DEMO LINKS AVALIAVLE IN PORTFOLIO

NLP CHATBOT   MAGH 2081
Virtual Waiter

Developed chatbot using **Dialogflow**, **FastAPI** and **Django**, to handle & store user orders in an online **MYSQL** database, implemented in a self-built **website** for a restaurant.

HELLO PET   BAISHAK 2080
An Android App for Pet Care

Led a team of 4 to develop an Android app focused on raising pet. Designed and implemented frontend using **Flutter**, with backend by **FastAPI** and **Django**.

Integrated machine learning models for:

- Breed detection using ResNet50 CNN (achieved 95.47% accuracy)
- Disease prediction using MLP (achieved 82% accuracy)
- Pet product recommendations using Content-Based Filtering (CBF)

HR DASHBOARD   ASAR 2082
Tableau Dashboard

- Designed and developed an interactive **Human Resources Dashboard** in Tableau to analyze employee demographics, performance, and salary trends.
- Integrated data generated via Python's **Faker** library to simulate HR systems data, including demographics, job details, performance evaluations, and attrition.
- Enabled HR managers to **identify high-performing employee profiles, track hiring/termination trends, and evaluate salary disparities** across gender,