SUPREM KHATRI

LinkedIn: Suprem Khatri
GitHub | Portfolio
Mobile: +977-9848820763
Email: Supremekc678@gmail.com

Profile

AI/ML student passionate about building data-driven solutions to solve real-world problems. Strong background in machine learning, data analysis, and UI/UX. Skilled in developing predictive models, analytics dashboards, and managing full project lifecycles.

EDUCATION

IIMS College/ Taylor's University — Kathmandu/ Nepal
Bachelor of Computer Science (HONORS) – CGPA:3.62 — Jan 2023 – Dec 2026

Trinity International College — Kathmandu/ Nepal
+2 - Management Faculty – Computer Science – CGPA:3.50

SKILLS SUMMARY

- **Languages:** Python, SQL, JAVA
- **Libraries:** Pandas, NumPy, SciPy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, PyTorch, FastAPI, pydantic
- **Tools & Platforms:** Git/GitHub, Docker, PyCharm, Jupyter Notebook, Visual Studio Code, PowerBI, Excel
- **Soft Skills:** Teamwork & Collaboration, Communication, Report Writing, Presentation

PROJECTS

Pothole Detection System using CNN and location mapping

- Developed a real-time Pothole Detection System using YOLOv5n and YOLOv8n and GPS integration to identify road damage and visualize locations for smart city infrastructure planning.
- Annotated a custom dataset using Roboflow and applied image augmentation techniques to improve model generalization and robustness.
- Deployed the model using Docker for seamless cross-platform sharing and reproducibility.

NLP Projects (Spam Message Detection | Sentiment Analysis)

- Implemented Spam Message Detection and Sentiment Analysis on Daraz product reviews using Naive Bayes and TF-IDF, achieving accurate text classification on low-resource Nepali datasets.
- Preprocessed Nepali text, achieved high accuracy, and visualized results using Seaborn.

Dajubhai Minimart Analysis

- Built two predictive models for a local retail store: one for classifying loyalty members and another for predicting total sales.
- Utilized pandas for data preprocessing, scikit-learn for model training, and matplotlib & plotly for interactive data visualization.
- Employed Random Forest Classifier for membership classification and Gradient Boosting Regressor for sales forecasting.

Trek Data Analysis

- Developed a trekking recommendation system based on user-specific inputs such as cost, altitude, age, group size, and fitness level.
- Applied Logistic Regressor and Random Forest Regressor models to provide optimal trek suggestions.
- Built an interactive dashboard using Streamlit and visualized trends using matplotlib and plotly.

Churn Rate Prediction

- Developed a model to predict customer churn probability based on payment patterns, including monthly payment amount and payment delay frequency.
- Utilized Logistic Regression in Python to build and evaluate the classification model.

CERTIFICATES

Python Data Fundamentals | CERTIFICATE

- Gaining hands-on experience with Python programming, data manipulation using pandas, and data visualization with Matplotlib & Seaborn
- Built a strong foundation in writing efficient Python code and analyzing real-world datasets for data-driven insights.

Git/GitHub Foundations | CERTIFICATE

- Learned version control for collaborative software development and Data projects.
- Leveled up the GitHub skills with everyday collaborative tasks like issues, pull requests and learned about
- GitHub Projects, Actions, Administration and advanced security features.

Data Science with Python | CERTIFICATE

- Built linear and logistic regression models (sigmoid/log-loss) using Python and NumPy for predictive analysis
- Performed data preprocessing, statistical exploration, and density/distribution visualizations to interpret model outputs

Data Analyst | CERTIFICATE

- Leveraged Python (pandas, NumPy) for data wrangling, merging datasets, and managing categorical variables.
- Performed exploratory data analysis (EDA) and hypothesis testing to uncover trends and validate insights.
- Crafted effective visualizations using Matplotlib and Seaborn to communicate results.
- Utilized Python techniques like list comprehensions and custom functions to streamline analytic workflows.

ACHIEVEMENTS

Achieved a minimum 3.5 GPA every semester, earning a spot on the Dean’s List throughout my academic tenure.
