

ABHISHEK

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Portfolio: <https://abhishek-chaudhary-ml-portfolio.netlify.app>

Objective

Final-year B.Tech CSE student specializing in Machine Learning and Data Science. Skilled in Python, TensorFlow, and Scikit-learn with hands-on experience building and deploying ML solutions. Seeking an internship to apply expertise in deep learning, NLP, and model optimization to real-world problems.

Education

B.Tech in Computer Science Engineering

KC Group of Research and Professional Institute, Pandoga(UNA , H.P)

Final Year

Expected Graduation: July,2026

Certifications

- [Supervised Machine Learning: Regression and Classification](#) - Stanford University (Coursera)
- [Advanced Learning Algorithms](#) - Stanford University (Coursera)
- [Unsupervised Learning Algorithms](#) - Stanford University (Coursera)

Projects

Car Price Prediction Model

Built a machine learning model using Random Forest to predict car prices based on features like brand, year, engine volume, and mileage, achieving 78% accuracy on a dataset of 19,000+ car listings.

Technologies: Python, Scikit-learn, Pandas, NumPy, matplotlib , seaborn, HTML , CSS , JavaScript, Render.

Kmean Clustering

This project applies K-Means Clustering on customer transaction data to segment users into actionable groups using RFM analysis (Recency, Frequency, Monetary). The primary goal is to understand and optimize marketing strategies for each customer group based on purchasing behavior.

Technologies: Python, Scikit-learn, Pandas, NumPy , matplotlib , seaborn

Air Quality Dashboard

This is a Streamlit web app that visualizes air quality data collected from over 150+ monitoring sensors across India. It provides users with interactive map and chart views for analyzing pollution levels like PM25, PM10, O2, NO2, CO, SO2, and more.

Technologies: Python, Pandas, DuckDB , DBeaver ,Plotly ,streamlit.

RAG ChatBot

Built a Retrieval-Augmented Generation chatbot for document Q&A, integrating PGVector + Redis for semantic retrieval, reducing query time by 30%. Deployed on Render with Flask backend.

Technologies: Python, Supabase , PGvector , Redis , Render , HTML , CSS , JavaScript , Embedding.

Skills

- **Programming & Databases:** Python, SQL, C/C++, Java, PostgreSQL, MongoDB, Redis
- **Frameworks & Libraries:** TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Streamlit.
- **Tools & Platforms:** Flask, Docker, Git & GitHub, VSCode, JupyterNotebook, Render.

Interests

- Data Analysis
- Data Science
- Cognitive Computing