Mahnoor Shahid

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github.com/mahnoor2410

Education

Bachelor of Science in Computer Science, LCWU, lahore, Pakistan   Nov 2021 – June 2025

Skills

Programming: Python, flask, Django, JavaScript, HTML, CSS, Object Oriented Programming (OOP)
Data & ML: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, HuggingFace Transformers, FAISS, Data Visualization, Data Mining, Feature Engineering, Machine Learning, Deep Learning, NLP, Retrieval-Augmented Generation (RAG)
Tools: Git, GitHub, Jupyter Notebook, Google Colab, VSCode

Experience

Data Science Intern, CodeAlpha, Lahore, Pakistan   Oct 2024 - Nov 2024
- Collaborated on data science projects to analyze complex datasets and develop machine learning models for actionable insights.
- Applied statistical techniques and data visualization tools to interpret trends and patterns effectively.
- Utilized Python and libraries such as Pandas and Scikit-learn for real-world problem solving and analysis.

Projects

Breathe Safe: AI-Powered Air Quality Weather Advisory Web App   Final Year Project
- Developed a Flask-based web app with a React.js frontend for real-time AQI monitoring, forecasting, and health guidance using OpenWeather API and Gemini AI.
- Integrated a Gemini-powered NLP chatbot to answer air quality and health-related queries, along with secure user authentication (Flask-Login) and chat history using SQLAlchemy.
- Enabled interactive AQI visualization and delivered personalized health insights with clean error handling and seamless UX.

Car Price Prediction (Internship Project)   Oct 2024 - Nov 2024
- Built a regression model using real-world car data to predict prices based on features like year and fuel type.
- Applied feature selection and pre-processing for optimized performance using Scikit-learn.
- Delivered actionable insights for decision-making in car sales.

JobTechPort: AI-Based Job Portal for Resume Screening & Applications (2024)   Freelancing Project
- Built a Django-based job portal featuring resume ranking using Gemini AI and real-time status tracking.
- Automated email notifications via SMTP and extracted resume data using pdfplumber.
- Developed user and admin dashboards with secure login/register flows.

Smart Pet Classifier: Image Classifier for Dog and Cat Recognition (2025)   Personal Project
- Trained a deep CNN model using TensorFlow & Keras with data augmentation for pet image classification.
- Integrated advanced Separable Convolutions to boost model efficiency and reduce overfitting.
- Deployed as a Django-based web app for real-time image upload and class prediction with accuracy metrics.

IntelliDoc QA System: RAG-Based Multi-PDF QA Chatbot (2025)   Personal Project
- Built a RAG-based multi-PDF Q&A system using LangChain, Gemini, FAISS, and HuggingFace embeddings.
- Enabled semantic chunk search, source citations, chat memory, and multi-file support via Flask & Gradio.
- Implemented chunk visualization and metadata extraction for an interactive QA experience.