

Mahnoor Shahid

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Education

Bachelor of Science in Computer Science, Lahore College for Women University (LCWU), Lahore, Pakistan Nov 2021 - June 2025
• CGPA: 3.35/4.0
FSc. (Pre-Engineering), Punjab Group of Colleges, Lahore, Pakistan 2019 - 2021

Skills

Technical: Python, Web Scraping, Machine Learning, Object-Oriented Programming (OOP), JavaScript, HTML, CSS, Scikit-learn, NumPy, Pandas, Matplotlib, React.js, Tailwind CSS, Bootstrap, VS Code, Git Version Control, Django, Flask (Basic).
Language: English (Fluent); Urdu (Native)
Interpersonal Skills: Team working, Public Speaking, Communication.

Experience

Data Science Intern, CodeAlpha, Lahore, Pakistan Oct 2024 - Nov 2024
• Collaborated on data science projects to analyze complex datasets, develop machine learning models, and derive actionable insights.
• Applied statistical techniques and data visualization tools to interpret trends and patterns effectively.
• Designed and implemented predictive models, improving project outcomes and efficiency.
• Utilized Python and various libraries for data processing and analysis.
• Successfully contributed to solving real-world problems, improving analytical and problem solving skills.

Projects

Breathe Safe: AI-Powered Air Quality Weather Advisory Web App Final Year Project
• Developed a Flask-based web app to deliver real-time Air Quality Index (AQI) data and personalized health advice using OpenWeather API and Gemini AI.
• Implemented features like real-time AQI monitoring, hourly/daily forecasts, an interactive chatbot, and secure user authentication with Flask-Login.
• Designed a responsive React.js frontend for dynamic data visualization and user interaction.
• Integrated SQLAlchemy for chat history management and Gemini AI for tailored health recommendations.
• Enhanced user experience with robust error handling and clean code practices
Email Spam Classification with Machine Learning (Sep 2024 - Dec 2024) Academic Project
• Compiled and pre-processed a dataset of spam and non-spam emails, ensuring data quality and consistency.
• Applied TF-IDF for effective text representation and implemented Best First Feature Selection for impactful feature identification.
• Deployed and compared classification algorithms: Naive Bayes, Multinomial Naive Bayes, and J48 Decision Tree.
• Evaluated performance using a Confusion Matrix and achieved high accuracy through systematic algorithm comparison.
• Used Python and libraries such as Scikit-learn for model implementation.
Car Price Prediction (March 2024 - June 2024) Academic Project
• Created a machine learning model to predict car prices based on real-world factors such as year, present price, fuel type, and transmission.
• Utilized Linear Regression for accurate price predictions using Python and Scikit-learn.
• Pre-processed data and implemented feature selection techniques for optimized performance.
• Delivered insights for informed decision-making in car sales and purchases.

Real Estate Web Application (July 2023 - Sep 2023)

Freelancing Project

- Developed a modern and responsive real estate web application using React.js and Tailwind CSS.
- Integrated user-friendly interfaces and ensured a seamless user experience with intuitive navigation.
- Designed reusable and modular components, adhering to clean code principles.
- Leveraged Tailwind CSS for consistent and visually appealing styling across the application.

AI-Powered Job Portal (Jan 2023 - March 2023)

Freelancing Project

- Developed a Django-based job portal to streamline recruitment processes.
- Integrated Google Gemini AI for intelligent resume ranking, providing rank scores (1-10) based on job descriptions.
- Built features for real-time application status tracking (Accepted/Rejected/Pending) and a user-friendly dashboard for candidates and admins.
- Automated email notifications using SMTP and extracted text from resumes with pdfplumber.
- Implemented secure authentication (Login/Logout/Register) for seamless and safe user access.