Mahnoor Shahid

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PERSONAL PROFILE

I am a data analyst with expertise in **machine learning** and a passion for building data-driven solutions. With experience in front-end development using **React**, I am currently focused on enhancing my back-end development skills by working on **Django**. I am committed to continuous learning and leveraging my technical knowledge to deliver innovative and impactful solutions.

EDUCATION

PUNJAB COLLGE   **2019-2021**
Pre-Engineering

LAHORE COLLEGE FOR WOMEN UNIVERSITY   **2021-2025**
BSCS Computer Science

PROJECTS

Email Spam Classification with Machine Learning

- 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

- 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 with React JS and Tailwind CSS

- 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.

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WORK EXPERIENCE

Data Science Intern-certificate
CodeAlpha (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 tools such as Python with different libraries for data processing.
- Successfully contributed to solving real-world problems, enhancing analytical and problem-solving skills.

TECHNICAL STRENGTHS

- **Computer Sciences**: Machine Learning, OOP
- **Programming Languages**: Python, JavaScript, HTML, CSS.
- **Softwares & Tools**: VS Code, Git Version Control
- **ML Frameworks and Libraries**: Scikit-learn, NumPy, Pandas, Matplotlib.
- **Frontend Technologies**: React.js, Tailwind CSS, Bootstrap.
- **Web Frameworks**: Django (Basic), Flask (Basic).

CERTIFICATION

Python with AI/ML from ITU