

Shayan Hussain

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Skills

Languages: Python, JavaScript, Java, C, HTML, CSS, SQL

Frameworks/Tools: Django, Flask, REST API, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook, SQLite, MySQL, Git, GitHub, Arduino, MERN Stack, Tailwind CSS, Bootstrap

Areas of Expertise: Machine Learning, Deep Learning, Supervised Learning, Full-Stack Development, Model Evaluation, Data Preprocessing, API Integration, Version Control, Agile Development

Work Experience

Python Developer Intern – CodSoft

Remote | Mar 2024 – Apr 2024

- Delivered 5 Python CLI tools supporting task automation, contact management, password security, and interactive utilities deployed to over 100 testers for functional evaluation
- Structured and optimized file handling and modular architecture, reducing runtime errors by 40%
- Leveraged Git and GitHub to coordinate version control and track issues during development cycles

Projects

Weather Prediction Using Machine Learning – Python, Jupyter, Scikit-learn

Built and benchmarked KNN, Logistic Regression, and MLP models, resulting in 18% accuracy improvement. Visualized performance trends using Matplotlib.

AI-Based Car Maintenance Predictor – Python, MLP, Scikit-learn

Designed a vehicle maintenance classifier with 85% predictive accuracy. Incorporated 6+ vehicle parameters using robust preprocessing and stratified sampling techniques.

IoT Weather Monitoring System with Web Integration – ESP32, Django, HTML, JS

Programmed a weather tracking solution integrating 3 sensors and Django frontend. Achieved 95% live data accuracy and enabled real-time firmware update control.

RFID-Based Door Lock System – Arduino, RC522, Servo, Buzzer

Configured an RFID door lock system successfully tested in over 10 controlled environments. Reduced unauthorized access attempts by 70% through programmed lock behavior and user feedback via LEDs and buzzers.

Smash Car Marketplace (Full-Stack App) – Django, Java, HTML/CSS, SQL

Developed a CRUD-based car marketplace platform. Enhanced listing efficiency and cut invalid inputs by 30% through validation and secure SQL queries.

Weather Forecasting System (CLI) – C, JSON API, File I/O

Scripted a command-line app for fetching and logging weather data. Implemented email alerts for extreme conditions and offline tracking used by 20+ users.

Soft Skills

- Solved complex coding challenges in team settings, reducing project turnaround time by 25%
- Presented project demos to peers and mentors with 90% positive feedback on clarity and depth
- Managed multiple academic deadlines and code deliverables with consistent timeliness
- Participated in agile sprints and pair programming tasks during internship projects
- Eager to embrace new technologies and adapt to evolving project requirements

Awards & Certifications

- Google Cloud – AI Fundamentals (Credential ID Available)
- Data Science Associate Path – Completed on DataCamp