

Zazwala Shehnazbegum

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📁 PROFESSIONAL SUMMARY

A recent Information Technology graduate with a strong foundation in Python, AI, Machine Learning, and Data Science. Passionate about leveraging analytical and programming skills to develop innovative solutions for real-world challenges. Seeking an entry-level role where I can apply my technical expertise and collaborative spirit to contribute to a dynamic team.

🎓 EDUCATION

Bachelor of Engineering in Information Technology
LJ Institute of Engineering and Technology
CGPA: 7.94

2021 – 2025
Ahmedabad, India

🏢 WORK EXPERIENCE

Data Science Intern
PetPooja ☑

2025 Apr – present
Ahmedabad, India

🛠 SKILLS SUMMARY

Programming Languages — Python,SQL, Java, C

Web Development — Frontend: HTML,CSS,Bootstrap,Javascript, Reactjs, GSAP | Backend: Django,Nodejs | Databases: MySQL, MongoDB, PL/SQL

Data Science & Machine Learning — Tools and Libraries: Pandas, NumPy, Scikit-Learn, TensorFlow, OpenCV, MediaPipe, BeautifulSoup, YOLO, SORT, EasyOCR | Visualisation: Matplotlib, Seaborn

Soft Skills — Problem-Solving, Teamwork, Communication, Adaptability, Creativity

📁 PROJECTS

Recommendation System for Farmers

Python, Machine Learning, Scikit-learn, Pandas, Random Forest

- Engineered a machine learning model to provide crop recommendations to farmers based on regional environmental and soil conditions.
- Trained a **Random Forest** algorithm on a dataset containing agricultural parameters to predict the most suitable crop for a given area.
- The system is designed to help farmers make data-driven decisions to maximize crop yield and improve agricultural efficiency.

Swift Scan: Real-Time Traffic Monitoring System

AI/ML

This project integrates vehicle detection, tracking, and license plate recognition to monitor traffic in real-time using a combination of YOLO object detection, SORT tracking, and EasyOCR.

Image to Text Generator with Text-to-Speech

Python, OpenCV, Hugging Face Transformers, pyttsx3

- Created an AI-powered image captioning system using the BLIP (Bootstrapping Language-Image Pre-training) model from Hugging Face to generate accurate textual descriptions of images.
- Integrated OpenCV for image pre-processing and utilized the pyttsx3 library to add a text-to-speech feature, improving accessibility.

Petrol-Pump Management System

DBMS, PL/SQL

- Designed and implemented a secure Database Management System for a petrol pump to manage sales, purchases, and stock inventory efficiently.
- Implemented stored procedures and triggers for secure data handling and enforced data integrity using grant and revoke privileges.

Disease Detection Analysis

Python, Pandas, Seaborn, Matplotlib

- Authored a data analysis program to process and interpret health-related data from CSV files.
- Leveraged Matplotlib and Seaborn libraries to generate insightful data visualizations, effectively identifying underlying trends and patterns for disease detection.

Pokemon Battle Game

Python, Pygame, API Integration

- Developed a fully functional "Pokemon Battle" game using Pygame, featuring turn-based combat and dynamic game logic.
- Integrated an external Pokemon API to fetch character data, ensuring an engaging and up-to-date gameplay experience.

🏆 CERTIFICATIONS & ACCOMPLISHMENTS

Exploratory Data Analysis for Machine Learning - IBM
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What is Data Science? - Coursera ☑

Algorithmic Thinking (Part 1 & 2) - Rice University ☑

Participant, HackOut'23 - DA-IICT, Gandhinagar ☑

Participant, NASA Space Apps Challenge 2023 - Nirma, Ahmedabad ☑

Ethical Hacking Essentials (EHE) - EC-Council ☑

Building Generative AI-Powered Applications with Python - IBM ☑

Website Designing Head, Exympower Innovation - Ahmedabad ☑