

# UZMA MANSOORI

Python Specialist

Bengaluru, Karnataka • 8435714019 • uzmamansoori220@gmail.com

## SUMMARY

A dedicated Software Developer with expertise in Python, Backend systems, Data Science, LLMs, and Cloud-based deployments, I specialize in building scalable solutions, automating workflows, and integrating AI-driven technologies. With a strong focus on innovation and continuous learning, I aim to contribute to impactful, cutting-edge projects and drive success in dynamic tech environments.

## WORK EXPERIENCE

### Specialist, HCL Technologies

Sep 2024 - Present

- To develop terraform script generation using LLMs and integrated with RESTful API for seamless deployment.
- Design and built backend solutions using Django combined with AI and LLMs to address diverse client requirements effectively.
- Implemented RAG using vector embeddings with ChromaDB for efficient and intelligent data retrieval.
- Design Jenkins pipeline to automate app publishing in Intune App Factory, replicating Azure DevOps functionalities.

### Software Developer , Antino Labs Pvt. Ltd.

Feb 2023 - Aug 2024

- Develop Django RESTful APIs for mobile and web applications.
- Manage end-to-end processes for Python APIs, from building to deployment.
- Work on innovative projects involving data science and large language models (LLMs).
- Work on Machine Learning projects & implemented different LLM's to the projects.
- Collaborate closely with clients to meet their requirements.

### Machine Learning Intern, Praedico Global Research Pvt. Ltd.

May 2022 - Dec 2022

- Assist in developing and optimizing machine learning models.
- Conduct data preprocessing and analysis to support model training.
- Collaborate with senior data scientists on innovative ML projects.
- Implement and test algorithms to improve model accuracy and performance.

## SKILLS

- Python
- Machine Learning
- Deep Learning
- LLM's & Generative AI
- Retrieval-Augmented Generation (RAG)
- Agentic AI
- Langchain
- Jenkins, Terraform
- Django
- Rest API's
- SQL & NOSQL
- AWS Services
- Data Visualization
- Azure Services
- Microsoft Graph API
- Microsoft Intune

## PROJECTS

### • Stock Price Prediction

Developed a dynamic predictive model using machine learning (RNN's & LSTM) algorithms to make accurate predictions based on historical data. Achieved a high accuracy rate of 88%. Designed the program to be highly interactive, with predictions adapting to user input factors.

### • ProseForge: AI-Powered Content Creation Platform

Developed an advanced content creation platform utilizing Crew AI and Large Language Models (LLMs). Implemented different types of agents to generate high-quality, coherent, and contextually relevant content. Enhanced user experience by providing customizable content options based on user inputs and preferences. Integrated complete agentic system with Django.

- **EdMyst : Transforming Talent**

An recruitment platform employing AI-driven automated assessments to evaluate users' skill proficiency comprehensively. Implemented a dynamic dashboard tailored for recruiters, facilitating streamlined candidate management. Orchestrated robust permissions and role-based access controls across all features for heightened security. Leveraged AWS Lambda for scalable and efficient API architecture. Integrated detailed performance reports, empowering users to track and analyze assessment outcomes seamlessly.

- **Zenli**

A journal application that empowers users to chronicle their daily experiences, capture moments through photos, and even record audio entries. With this application, users can cultivate a consistent journaling habit and maintain a streak of their entries. Implemented Notification part. Using Redis, Celery and Cron for sending notifications.

- **Electricity Demand Forecasting (15 min of Interval)**

Power demand forecasting is a data-driven approach that leverages various machine learning algorithms to predict the future electricity consumption for a given region or entity. Data Preprocessing by addressing missing values, outliers, and encoding categorical variables. Worked on model training, Model Evaluation & Hyperparameter Tuning.

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## EDUCATION

### Bachelor of Technology in Computer Science & Engineering

Aug 2019 - May 2023

IPS College of Technology & Management

- Graduated with a 9.2 CGPA.

### Higher Secondary from Madhya Pradesh Board

Apr 2018 - Mar 2019

Govt PRG Higher Secondary School

- Scored 87.6%

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## ACHIEVEMENTS

- **National Hackathon Winner**

Secured 1st position in National Hackathon at MITS Gwalior, hosted in collaboration with Research & Development Department Microsoft.

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## CERTIFICATES

- Earned a certificate in Python and Machine Learning from Udemy.
- Certificate on completing virtual internship in "Basics of Data Science" by Binary Systems.

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## LANGUAGES

- English
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