

# Praveen S

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## EDUCATION

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**IIT Madras GUVI, Tamil Nadu, India**

Master Data Science program

Feb 2023 – Aug 2023

**K.S.R College of Engineering, Tamil Nadu, India**

Bachelor of Mechanical Engineering

June 2015 – April 2019

## SUMMARY

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Motivated recent graduate with a zeal for Data Science. Strong foundation in ML/AI concepts and hands-on project experience. Eager to contribute and learn from experts.

## SKILLS

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- **Languages:** Python
- **Packages and Frameworks (Python):** Sckit-Learn, TensorFlow (ANN, CNN), keras, langchain, hugging faces, NumPy, Pandas, Matplotlib, Seaborn, NLTK, Spacy, Streamlit, ZenML, MLFlow.
- **Technologies:** PostgreSQL, MySQL, MongoDB, Docker, DagsHub, Ubuntu, AWS (ECR), AWS (EC2), GitHub.

## EXPERIENCE

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**Artificial Intelligence Virtual Intern | Cognizant:**

Aug – Sep 2023

- Created a machine learning model to optimize supply chain operations.
- Implemented a Random Forest Regressor model to forecast stock prices with remarkable accuracy.
- Employed K-fold cross-validation to assess model performance, resulting in an outstanding average Mean Absolute Error (**MAE**) of **0.24**.
- Proficiently applied data preprocessing, machine learning, and model evaluation techniques to financial data.

**IT Security Engineer | FI & ASR groups, Dubai, UAE:**

Jan – Nov 2022

- Orchestrated security measures to protect systems from hacking and fraudulent activities while ensuring compliance with business goals.
- Led system updates and defenses against emerging exploits, incorporating technical documentation for comprehensive records.
- Demonstrated expertise in network services, protocols, and Wireshark to proactively detect and mitigate intrusions.
- Assessed web app vulnerabilities using tools like Acunetix and effectively communicated findings to the security team.

## **IT Support Engineer | US Technologies, Vellore, Tamil Nadu, India:** Aug 2019 – Sep 2021

- Diagnosed and resolved software issues while serving as the first point of contact for technical queries.
- Proficient in Windows server administration, network troubleshooting, and system configuration.
- Identified budgetary implications of IT projects and upgrades, ensuring cost-effective decisions.

## **PROJECTS**

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### **Insights Accelerator using LLM**

**[ [GitHub Link](#) ]**

- Designed and built a robust Research Tool using langchain, featuring OpenAI-powered natural language processing.
- Implemented data preprocessing techniques, including advanced text splitting, resulting in a **30%** reduction in information retrieval time.
- Streamlined the retrieval process, providing valuable insights from multiple sources for informed decision-making.

### **PrepBot - Interview Preparation Assistant using LLM**

**[ [GitHub Link](#) ]**

- A smart and friendly AI chatbot that serves as your personal interview coach, helping you ace job interviews with confidence.
- Harnesses advanced document retrieval technology to extract key insights from interview guides.
- Engage in dynamic, real-time text conversations with the chatbot, and access a chat history.

### **Rule Based Chatbot for Retail using NLP**

**[ [GitHub Link](#) ]**

- Engineered a rule-based chatbot tailored for a retail environment, proficient in addressing customer inquiries regarding product availability, promotions, and order status.
- Employed Python and Natural Language Processing (NLP) methodologies to construct the chatbot, with TensorFlow as the foundational technology.

### **Pepper Plant Disease Prediction using DL**

**[ [GitHub Link](#) ]**

- Developed an AI model using TensorFlow and Keras to identify diseases in pepper plants from images, aiding farmers in early detection.
- Created a user-friendly web app using Streamlit for easy image uploads and real-time disease predictions.
- Combined deep learning and web technologies to empower farmers, reducing crop losses, and increasing yields.

### **Car Price Prediction using ML – End to End**

**[ [GitHub Link](#) ]**

- Created a predictive model that accurately estimates car selling prices, enabling the company to set competitive prices and maximize revenue.
- Streamlined operations by automating the pricing process, reducing manual effort, and minimizing pricing errors, resulting in cost savings.
- Implemented a user-friendly web interface for customers to obtain instant price estimates.