

# Praveen S

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## EDUCATION

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### GUVI from IIT Madras, 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

## SKILLS

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- **Languages:** Python, SQL
- **Packages and Frameworks (Python):** Scikit-Learn, TensorFlow (ANN, CNN), keras, LangChain, Hugging Face, NumPy, Pandas, Matplotlib, Seaborn, NLTK, Spacy, Streamlit, MLFlow.
- **Technologies:** PostgreSQL, MySQL, Docker, DagsHub, Ubuntu, AWS (ECR), AWS (EC2), GitHub.

## EXPERIENCE

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### AI Virtual Program Intern | Cognizant [Forage]: Aug – Sep 2023

- Developed and optimized machine learning models for supply chain operations and stock price prediction using Random Forest, achieving a **MAE of 0.24**.

### IT Security Engineer | FI & ASR groups, Dubai, UAE: Jan – Nov 2022

- Implemented security measures and managed system enhancements to defend against cyber threats. Utilized tools like **Wireshark** and **Acunetix** for vulnerability detection, compliance.

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

- Served as the first point of contact for technical queries, diagnosing and resolving software issues, while managing network troubleshooting, and system configuration.

## PROJECTS

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### Customer Churn Prediction – End to End ML

- Developed a prediction model using XGBoost, achieving an **F1 score of 0.84**, and optimized performance through hyperparameter tuning (Grid Search) and SMOTE to address class imbalance. **Tech Stack:** Python, Scikit-Learn, MLflow, Docker, Streamlit, AWS (ECR AND EC2).

### Information Retrieval System – End to End GenAI

- Developed a **PDF-Based Conversational** AI system using LangChain, integrating document retrieval, text chunking, and embedding generation with FAISS for vector storage and conversational retrieval. **Tech Stack:** Python, LangChain, Google Generative AI, FAISS, PyPDF, Dotenv, Mistral-7B-Instruct, Together AI, Streamlit.