

Praveen S

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EDUCATION

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

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

EXPERIENCE

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

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.