

UMEAIMAN MERCHANT

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Education

University of South Florida

Masters of Science in AI and Business Analytics

Tampa, FL

Aug 2024– Aug 2026

Savitribai Phule Pune University

Bachelor of Technology in Electronics Engineering

Pune, MH

Aug 2017 – May 2021

EXPERIENCE

Consultant

Ernst and Young LLP

Oct 2023 – Present

Mumbai, MH

- Developed a Retrieval Augmented Generation (**RAG**) system using Python, Langchain, and **Streamlit** to enhance language models' accuracy by integrating external data sources.
- Engineered a custom chatbot with **OpenAI's GPT-4** model, enabling users to interact via a web interface.
- Enhanced the chatbot's capability to provide accurate responses and dynamic **visualizations**, significantly improving user engagement and interaction.

Senior Software Engineer

LTIMindtree

Jul 2021 – Oct 2023

Pune, MH

- Created **Tableau** dashboard for data anomaly detection, using **advanced SQL** for error identification and resolution. Achieved 20% reduction in data-related issues.
- Automated 5 **Solidatus** Tool tasks with **Python**, boosting productivity 40%. Developed **UiPath**-RPA for Tableau testing, cutting manual efforts 70% and enhancing testing coverage.

Intern

Samsons Hardware

Jan 2021 – May 2021

Nashik, MH

- Developed a **machine learning model** using Python, pandas, scikit-learn, and time series analysis to predict demand for hardware machinery, optimizing supply chain operations and improving inventory management efficiency.
- Achieved a **20% reduction** in prediction error by analyzing historical sales data with the developed model, enhancing supply chain assistance and operational efficiency.

PROJECTS

Breast cancer prediction | Python, Ensemble, Classification, Docker

Jul 2020 – Dec 2020

- Implemented **Voting-Classifer ensemble** technique combining Logistic Regression, Decision Tree Classifier, and Support Vector Machine (SVM) models to achieve accurate predictions in breast cancer classification. Leveraged ensemble learning to enhance model robustness and achieved high predictive accuracy through collaborative decision-making among diverse algorithms

Nondurable Goods Sales Prediction | Time series analysis, Deep Learning

Jan 2020– Jul 2020

- Conducted comprehensive time series analysis on nondurable goods sales, including beer, wine, and distilled alcoholic beverages, utilizing advanced forecasting models such as Holt Winters, **ARIMA**, SARIMA, and **RNN** models.

Salary Prediction | Web Scraping, EDA, Regression, Machine Learning, Git

Jan 2019– Jul 2019

- Developed a salary prediction tool for data professionals to aid in negotiation, leveraging **Engineered features** from job description text to quantify skill importance, optimizing for enhanced prediction accuracy.

Employee Attrition Prediction| EDA, Classification, Machine Learning

Aug 2018 – Dec 2018

- Led a project to analyze HR data and develop a **predictive model** for employee attrition, aiming to identify factors influencing turnover. By accurately predicting potential departures, facilitated insights into retention strategies, ultimately optimizing workforce stability and reducing hiring costs.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, R

Frameworks: Scikit-learn, Pandas, Keras, Streamlit, Flask, PyTorch, PySpark, LangChain, TruLens

Developer Tools: Git, Docker, Tableau, Visual Studio Code, AWS, GIT, Databricks, VS Code, Jupyter Notebook