

# ABINAV YADAMANI

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## EDUCATION

### University of Utah, David Eccles School of Business

Salt Lake City

- Master of Science, Business Analytics (**GPA: 4.0**)

May 2024

### Vasavi College of Engineering (Affiliated to Osmania University)

Hyderabad

- Bachelor of Engineering in Electrical Engineering (**GPA: 3.87**)

Jun 2016 – Sep 2020

## SKILLS

**Programming:** Python (Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, SHAP) R, SQL (CTE, Window Functions, Query Optimization)

**Data Modeling:** ER, Data Pipelines, Power BI (**Certified**), DAX, Tableau, Azure, ADF, Synapse, Snowflake, DOMO, Dashboards, KPI

**Statistics:** Distributions, ANOVA, t-test, A/B testing, Chi-Square, Robust Outlier Detection, Bayesian Statistics

**Machine Learning:** Regression, XG Boost, LGBM, KNN, PCA, Clustering, Random Forrest, ARIMA, Neural Networks, Deep Learning, RNN

**NLP:** Text Preprocessing, Text Sentiment, Topic Modeling, LSTM, LLM, Transformers (BERT, GPT, BART), LangChain, Hugging Face

**Other:** SSIS, SSMS, GCP, Time Series Forecasting, Spark, Databricks, Salesforce CRM, Agile Project Management, Computer Vision, CNN, Streamlit

## EXPERIENCE

### University of Utah, David Eccles School of Business

Salt Lake City

#### Graduate Teaching Assistant

Aug 2023 – Present

- Serving as a **Teaching Assistant for the MSBA Program Academic Director**; conduct office hours to support students with course explanations and address challenges in **Programming, Mathematics, Statistics & Predictive Machine Learning**.
- Evaluate and deliver constructive feedback on assignments, while also contributing to course and hackathon development.

### University of Utah Athletics, Applied Health and Performance Science

Salt Lake City

#### Data Science Summer Intern

May 2023 – Oct 2023

- Engineered and automated an agile **ETL data pipeline** using R, Python and SSIS to ingest and process data from diverse sources using APIs and storing in SQL Server Database, **saving 10+ hours** of manual effort on data retrieval and preprocessing. The Centralized database plays a pivotal role in facilitating data-driven decision-making across downstream systems.
- Utilized statistical methods and models to identify patterns and significant position-specific features to develop a comprehensive **Power BI dashboard to monitor athlete training for fatigue and injury signs**.

### Deloitte Consulting USI, Clients: PROS AI, Cargill (APAC, LATAM, NA, EMEA), Dell Federal

Hyderabad, India

#### Data Implementation Consultant

Sep 2020 – Dec 2022

- Developed a Unified CPQ Quoting Platform for Sales Reps to upscale capabilities leading to **2x increase** in profitability & efficiency by **eliminating manual pricing**. Leveraged the AI driven PROS platform enabling smart pricing, cross-selling and customer segmentation.
- Implemented **SQL queries to support ad hoc analysis**, seamlessly integrating Power BI to generate **dynamic real-time reports**. This data-driven approach through cross-functional collaboration resolved critical solution design gaps leading to the process improvements, **mitigating potential profit and margin leaks**.
- Hosted learning sessions for the C&M offering on PROS software. Received the **highest end-year rating**, and was recognized with **multiple firm awards** for notable contributions to the firm, client and the product.
- Enhanced platform further by implementing dynamic data selection through Swagger API by integrating data from Salesforce CRM and real-time prices from pricing engine, ensuring accurate quotation reports for the customers, client and ERP systems.

## PROJECTS

### • Home Credit Default Risk Prediction - MSBA Capstone

Nov 2023

Analyzed credit data to predict applicants' probability of repayment through thorough **EDA, feature engineering, Under & SMOTE sampling**, and developed **tuned models** including **XG Boost & Neural Networks** to obtain a **score of 0.77** on Kaggle (winner score: **0.8**). Leveraged **XAI** packages like **SHAP** to interpret individual model predictions to ensure trustiness and fairness of the results.

### • British Airways Data Science Project

Nov 2023

Scraped & analyzed customer reviews of British Airways by Sentiment Analysis & Topic Modelling for brand perception evaluation. Used HuggingFace models to summarize the reviews and built a predictive model to understand factors for incomplete bookings.

### • Ken Garff Remote Purchasing Database Design

Apr 2023

Designed a **relational database model** from scratch (ER, Relational & Physical models) to meet the business requirements. The database ensures a seamless experience for customers while maintaining well-structured records for the organization leading to **enhanced data management and reducing query response time**. Analyzed Data in SQL, gathered insights on KPIs using Power BI.