

EDUCATION

The University of Texas at Austin | *M.S. in Business Analytics – Finance Track (STEM)* | GPA: 4.0 May 2024

Relevant Coursework: Advance ML | Unsupervised Learning | Unstructured Data & Network Analytics | Optimization (incl. RL, MHSA transformers) | Advance Corporate Finance | Investment Theory | Empirical Finance | ML in Finance

BITS Pilani | *B.E in Manufacturing Engineering* | CGPA: 8.6/10

July 2019

WORK EXPERIENCE

THOROGOOD ASSOCIATES – *Data and Analytics Consultant* December 2020 - April 2023

Experienced in delivering Business Intelligence tools to global Fortune500 clients utilizing wide variety of technologies.

- **Tech Lead:** In-charge of architecture and development of ETL pipelines, data warehouses, and reporting dashboards for a consumer healthcare client utilizing SSIS, MS SQL Server and QlikView.
- Led optimization of those ETL pipelines post-delivery resulting in ~60% less compute cost in a span of 6 months.
- Spearheaded cloud migration of the tool to Azure Cloud amidst significant organizational change, successfully navigating the project through strict deadlines and an ambiguous environment.
- Directed an offshore team in development of TM1 application for a major finance multinational, streamlining their corporate lease change workflows, enhanced financial analysis, and reporting for lease change decision-making.
- **Project Manager:** Orchestrated requirement gathering, Agile sprint planning, and delivery of comprehensive BI solutions: Azure SQL Warehouses, Data Pipelines, Power BI, and TM1 applications for client's finance department.

AMAZON – *Operations Manager*

July 2019 - November 2020

- Directed end-to-end planning and execution of high-volume order events, achieving multiple business peaks for logistics network, including the Great Indian Festival, Prime Day, and Super Value Day.
- Data-driven decision-making to improve E-commerce operational processes; automated planning activities for Outbound and Dock departments at first-mile logistics center, streamlining operations and enhancing efficiency.
- Led project to identify product and package size mismatches utilizing data, analyzing weight distribution per package-type focusing efforts on lower 1% of products by weight, this saved 140 manhours weekly & reduced material waste.

PROJECTS

US MED-EQUIP – *Capstone Project (Data Science)* | Austin, TX

January 2024 – Present

- Employed ARIMA modeling to accurately forecast product-level demand from historical time series data.
- Monte Carlo simulation of product level demand to determine future range of revenue and operations cost.
- Ran inventory procurement optimization models utilizing forecasted demand and financials to maximize expected ROI
- **Solving Jane Street Puzzle with Reinforcement Learning:** Designed a reinforcement learning model using TensorFlow to solve a Jane Street puzzle, demonstrating algorithm development and model optimization skills - [Medium](#)
- **Computer Vision for Music Genre Classification:** Built a 10-class genre classifier, employing Neural Network techniques such as CNNs, LSTMs, transformers with MHSA (Multi-Head Self-Attention) – [Medium](#)
- **Political Discourse Analysis on Reddit:** Utilized current technologies like BERT and Hugging Face Transformers to perform NLP tasks like sentiment analysis, topics modeling among others – [Medium](#)

TECHNICAL SKILLS

- **Programming:** Python, R, TSQL, SAS, MATLAB, TM1 Planning Analytics
- **Tools & Platforms:** VS Code, GitHub, Apache Spark (Databricks), DevOps (Azure CI/CD, Jenkins), Data Pipelines (Azure DF, SSIS), Data Warehouse (AzureSQL), Cloud Administration, Data Visualization (Power BI, QlikView, Tableau, SSRS)
- **Python Libraries:** Pandas, TensorFlow, PyTorch, Scikit, SciPy, Matplotlib, NLTK, spaCy, BERT, Transformers
- **Statistical Methods:** A/B Testing, Regression (Logistic, Multivariate), Clustering (K-Means, Hierarchical), PCA, Time Series Analysis, Bayesian Methods, Decision Trees, Random Forests.
- **Certifications:** Microsoft Certified Azure Associate (Database Admin, AI & Data Science Solutions, Power BI)