CHYAVAN MYSORE CHANDRASHEKAR

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EDUCATION

The University of Texas at Austin May 2023
Master of Science, Business Analytics (GPA: 3.93/4)
- Coursework: Data Science Programming, Advanced Machine Learning, Deep Learning, Optimization, Reinforcement Learning

JSS Science & Technology University September 2020
Bachelor of Engineering, Electronics & Communication (GPA: 9.11/10)

TECHNICAL SKILLS

Programming: SQL (MySQL, MS SQL Server), R, Python (NumPy, Pandas, Scikit-learn, TensorFlow, Keras, NLTK, PySpark, Gurobi)
Technologies & Tools: Git, Tableau, AWS (Sagemaker, Redshift, Athena, S3, EC2), Jupyter Notebooks, R-Studio, Google BigQuery
Skills: Statistics, Hypothesis Testing, Data Wrangling, Deep Learning, Natural Language Processing, Generative AI, A/B Testing
Certifications: *Math for Machine Learning Specialization*, *Machine Learning Specialization*, *Google Data Analytics Specialization*

EXPERIENCE

The University of Texas at Austin – *Research Assistant,* Austin, Texas June 2023 – Present
- Generalize approach to promote critical thinking, productivity, and prompt engineering in the post-LLM era in technical education
- Identify the capabilities of NLPs, LLMs, diffusion models, generative AI technologies, and their adaptation in data science tools

Affinity Answers – *Data Scientist Intern,* Austin, Texas January 2023 – May 2023
- Developed and deployed a robust data pipeline on AWS (Athena, Sagemaker) to efficiently process live financial data of over 12 billion transactions from 9 million users, enabling seamless data retrieval for transactional and aggregate level analysis
- Conducted cluster analysis on brands to gain insights into correlated brands and consumer preferences, leading to highly successful outlet expansion recommendations driving a significant increase in monthly revenue of over $100,000 for every outlet
- Performed customer segmentation for the brands, enabling targeted marketing campaigns aimed at increasing the monthly revenue of each brand by approximately $20,000 for every outlet
- Developed brand-specific time series forecasting models (ARIMA, SARIMA) by integrating internal transactional data with external datasets (FRED data) and implemented a novel metric to identify trend anomalies and provide actionable insights to the business

Western Digital – *Analytics Developer,* Bangalore, India January 2020 - June 2022
- Developed an analytical reporting and automation solution for storage device validation used by 10k+ users across 50 labs in 4 countries and delivered latency improvements and enhancements resulting in a performance boost of up to 300%
- Integrated predictive and diagnostic models with real-time data for validation and failure analysis of Enterprise and Client SSDs
- Managed a team of engineers in developing a comprehensive lab management dashboard, enhancing drive monitoring, optimizing utilization, and providing a high-level overview of performance, health, and storage across different drive categories
- Devised SQL jobs, stored procedures (Microsoft SQL Server) and RESTful APIs using ASP.NET MVC to establish a centralized data pipeline between internal software tools to collect, store, transform, and analyze storage device validation data
- Created a comprehensive performance monitoring system that integrated Google Analytics enabling continuous insights into critical Web and API performance for ongoing enhancement opportunities

PROJECTS

Generative Adversarial Networks – *Doodle GAN* Python | TensorFlow | Transfer Learning | Generative AI
- Led a team of 5 in implementing a Deep Convolutional Generative Adversarial Network (DCGAN) model in python and training it on the Google QuickDraw dataset to generate unique bat doodles and analyzing the importance of the latent space vectors

Speech Generation using Neural Networks – *Stylized Speech Synthesis* Python | TensorFlow | Auto-encoders
- Ideated and developed a generative machine learning model for transforming a user's text input into a desired celebrity's speech by modifying vectors of autoencoder representation with voice signatures identified during speaker recognition

Demand Forecasting & Dynamic Pricing – *Guac 'n Roll* Excel | XLSTAT | Python | Non-Linear Programming
- Analyzed the price and demand relationship of avocado sales all over the US and devised a regression-based Demand function with 98.4% R-squared and achieved a 30.7% increase in revenue using dynamic pricing strategy for the forecasted period

Cloud Database Management and Analysis – *Formula-1 Analysis* Oracle DB | Tableau | SQL
- Conceptualized a data management framework for a company establishing a Formula-1 team by employing the Oracle cloud to set up a data warehouse and built Tableau dashboards to analyze and identify the potential race and market entry strategies

Recommendation System using NLP – *A Cornucopia of Cereals* Python | Selenium | Word2Vec | Sentiment Analysis
- Scraped data of 1500+ cereal brands and extracted user's desirable attributes from the product reviews using Natural Language Processing to recommend the top-3 niche cereals based on results from VADAR Sentiment Analysis and Word2Vec Similarity