

# CHYAVAN MYSORE CHANDRASHEKAR

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## EDUCATION

### The University of Texas at Austin

May 2023

Master of Science, Business Analytics (GPA: 3.97/4)

- Coursework: Advanced Machine Learning, Deep Learning, Data Science Programming, Optimization, Unstructured Data Analytics, Time Series Analysis, Database Management

### JSS Science & Technology University

September 2020

Bachelor of Engineering, Electronics & Communication (GPA: 9.11/10)

## TECHNICAL SKILLS

**Languages:** Python (TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NLTK, Gurobi, Spacy), SQL, R, JavaScript, HTML, CSS, C#

**Technologies & Tools:** Git, Angular, Microsoft SQL Server, Excel, Tableau, Jupyter, AWS: Sagemaker, Athena, S3, EC2

**Skills:** Machine Learning, Natural Language Processing, Computer Vision, Data Structures and Algorithms, Web Scraping, Agile

## EXPERIENCE

### Affinity Answers – Data Science Capstone Intern, Austin, Texas

January 2023 – May 2023

- Devised a process using unsupervised learning techniques (scikit-learn) to delineate errors causing anomalies (data drift and data issues) like revenue and churn rate changes, errors in geotagging, transaction dating, and brand auto-identification corner cases
- Developing predictive and time series models of purchase data available for analysis on AWS (Sagemaker, Athena) for each brand using client's transaction data and integrating external datasets

### Western Digital – Software Development Engineer, Bangalore, India

January 2020 - June 2022

- Owned an analytical reporting and automation software module used by 10k+ users and delivered latency improvements, functional and scalable code extensions, and enhancements resulting in a performance boost of up to 300% in specific cases
- Devised SQL jobs (Microsoft SQL Server), Console Applications & Services (C# and Python), back-end procedures, and RESTful APIs using ASP.NET Core MVC to verify and test SSDs and Firmware across 50 labs in 4 countries
- Spearheaded the delivery of significant UI features using Angular Framework to improve and provide a consistent user experience for worldwide internal users for the testing process of Enterprise and Client SSDs
- Collaborated with the machine learning team to integrate predictive and diagnostic models with real-time data for failure analysis
- Reduced manual efforts by more than 50% by developing an interface to automate workflow for Cadence schematics and hardware simulations using ASP.NET and Entity Framework, resulting in department-wide adoption

## PROJECTS

### The Price is Perfect – Optimization and Dynamic Programming

March 2023

- Created a dynamic programming model using Python (NumPy, SciPy) to incorporate stochastic demand behavior for airline ticket purchases and established the pricing strategy to follow to optimize the profitability of the airline

### Stylized Speech Synthesis – Speech Generation using Neural Networks

January 2023

- Ideated and developed a generative machine learning model (TensorFlow) 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

### Marketing Analytics – Market Basket Analysis, RFM Analysis

November 2022

- Extended Market Basket Analysis to find complementary and substitutive product suggestions for articles in the inventory of an e-commerce retailer and performed RFM analysis to identify the most profitable segments demographically and geographically

### A Cornucopia of Cereals – Recommendation System using Natural Language Processing

October 2022

- Scraped data of 1500+ cereal brands (Selenium Python) and extracted user's desirable attributes from the product reviews using NLP to recommend the top-3 niche cereals based on results from VADAR Sentiment Analysis and Word2Vec Similarity

### Austin MetroBike Trip Prediction – Predictive Modeling

August 2022

- Performed multiple supervised learning analyses (R and R-studio) on 1.69 million bike trips and predicted prospective traffic at MetroBike stations with 83.3% R-squared with Random Forest ensemble to provide supply management and marketing insights

## LEADERSHIP

- Google Developer Student Club - Orchestrated cloud study jams, workshops, and boot camps while also serving as the lead for digital media and photography teams
- Cultural Team Lead – Led undergraduate university's cultural team of 50+ talented individuals into a national-level cultural competition, 'Antaragni' organized by the Indian Institute of Technology-Kanpur