

CHYAVAN MYSORE CHANDRASHEKAR

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EXPERIENCE

Huntington National Bank – *Decision Scientist*, Columbus, Ohio January 2024 – Present

- Responsible for defining (Snowflake, MS SQL Server) and analyzing (R, Python) the data necessary to build strategies for the bank's digital channel, develop business cases, and make recommendations to the product, marketing, and data & analytics team
- Creating digital personas by analyzing customer behaviors in the digital channels using Hierarchical Agglomerative Clustering to understand different types of customer behaviors facilitating decision-making for digital channel strategies and tactics
- Ideated and implemented the automated report generation (Python, Selenium) enabling seamless, pre-office-hour delivery of time-sensitive reports resulting in significant time savings equivalent to the daily manual effort of a dedicated analyst

The University of Texas at Austin – *Research Assistant*, Austin, Texas June 2023 – January 2023

- Identify the capabilities of NLPs, LLMs, diffusion models, generative AI technologies, and their adaptation in data science tools
- Generalize an approach to promote critical thinking, productivity, and AI literacy in the post-LLM era in technical education

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
- 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 Software 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
- Created a comprehensive performance monitoring system that integrated Google Analytics enabling continuous insights into critical Web and API performance for ongoing enhancement opportunities

TECHNICAL SKILLS

Programming: SQL, R, Python (TensorFlow, PyTorch, Scikit-learn, Pandas, NLTK, Gurobi, Spacy, Selenium), JavaScript, HTML, CSS

Technologies & Tools: Git, Jupyter Notebooks, R-Studio, AWS (Sagemaker, Athena, S3, EC2), Snowflake, Google BigQuery, Tableau

Skills: Statistical Analysis, Hypothesis Testing, Ensemble Methods, Neural Networks, Natural Language Processing, A/B Testing

EDUCATION

The University of Texas at Austin May 2023

Master of Science, Business Analytics (GPA: 3.93/4)

- Coursework: Advanced Machine Learning, Deep Learning, Optimization, Reinforcement Learning, Time Series Forecasting

JSS Science & Technology University September 2020

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

- Coursework: Data Structures & Algorithms, Advanced Calculus, Linear Algebra, Statistics, Probability, Information Theory

PROJECTS

Signs of Intelligence – *Adversarial Attacks & Training* Present

- Currently developing a deep learning model to classify the German Traffic Sign Detection Benchmark (GTSDb) dataset, performing inference-time adversarial attacks, and evaluating the performance of the model with adversarial training

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

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