Dhruth Kesani

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EDUCATION

University of Washington Seattle – BSc in Data Science and Informatics — Seattle, WA, USA
GPA: 3.71/4.00, Minor in Business, 12-time Dean's List Member — *September 2020 – June 2024*
Columbia University – MSc in Data Science — New York, NY, USA
August 2025 – May 2027

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, HTML, CSS, R
Frameworks: Pandas, NumPy, SQL Server, Scikit-learn, TensorFlow, Matplotlib, GGplot2, React, D3, Power BI, Tableau, Excel
Coursework: Computer Programming I, II, III; Data Structures & Algorithms; Databases and Data Modeling I, II; Distributed Systems; Python Data Programming I, II; Advanced Statistical Methods; Data Science & Machine Learning; Software Architecture

EXPERIENCE

Software Developer - Clinical Intelligence — July 2024 – June 2025
Yashoda Hospitals — *Remote*
- Built a clinical recommendation system using TF-IDF vectorization to match 5,000+ patient cases with historical EMR data, reducing diagnostic uncertainty for medical trainees by 15%
- Led workshops for trainees on system navigation and query optimization to ease recommendation system adoption
- Developed a real-time ARIMA forecasting model, processing 2,000+ daily admission records with automated feature engineering to enable proactive staff allocation that significantly reduced average patient wait times

Data Science Intern - Retail Analytics — June 2023 – September 2023
Carrefour, Majid Al Futtaim Group — *Dubai, UAE*
- Composed complex SQL queries with CTEs, window functions, and stored procedures to extract data from 10M+ transactional records across multiple relational databases for inventory analytics
- Developed XGBoost forecasting models with SHAP feature importance analysis to predict produce demand patterns, achieving 86% accuracy and reducing overstock waste by 12% across 50+ store locations
- Validated findings and patterns with hypothesis testing on customer purchase behaviors using chi-square test and ANOVA

Data Analyst Intern - Strategy & Analytics — July 2022 – September 2022
Carrefour, Majid Al Futtaim Group — *Dubai, UAE*
- Cleaned and collated Net Promoter Score (NPS) data in BigQuery, performing significance tests to find satisfaction trends
- Applied Gensim Word2Vec sentiment analysis on customer feedback data, generating insights and boosting stores' NPS
- Designed interactive Tableau/Excel dashboards with real-time KPIs and confidently presented to senior executives, translating analytical insights into strategic business recommendations

Strategy Intern - Analytics, Insights & Forecasting — July 2019 – September 2019
Boehringer Ingelheim — *Dubai, UAE*
- Conducted market analyses that identified distribution gaps, resulting in a 15% faster time-to-market for new products
- Identified prescription trends with statistical modeling in R; created pitch decks and ad-hoc reports for drug launch tactics

PROJECTS

Nordstrom Database | *SQLServer, Azure Data Studio*
- Developed a DB for Nordstrom's analytics team from scratch with a detailed ERD to outline entity relationships and schema
- Created and tested advanced nested stored procedures with explicit transactions and efficiency-boosting synthetic wrappers
- Designed views with CTEs and ranking functions for simplified data analysis comprehensible by non-technical users

Predictive Analysis for OKC Thunder | *Pandas, NumPy, Scikit-learn, Matplotlib, Statsmodels*
- Developed predictive models with permutation feature importance to predict game outcomes and identify team weaknesses
- Generated strategic recommendations for front office, influencing trade proposals (Caruso, Hartenstein) to strengthen perimeter defense, translating model insights into actionable roster moves

EXTRACURRICULAR AND LEADERSHIP

Undergraduate Teaching Assistant — January 2024 – June 2024
INFO 370 | Core Methods in Data Science — *Seattle, WA*
Undergraduate Teaching Assistant — September 2023 – December 2023
INFO 376 | Search & Recommendation Systems — *Seattle, WA*
President - TEDx University Of Washington — September 2023 – June 2024