

VINAY KUMAR

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EDUCATION

Master of Science in Econometrics and Quantitative Economics

May 2025

The University of Texas at Dallas

GPA – 3.44

Bachelor of Arts in Economics and Operational Research

May 2022

The University of Delhi

GPA – 3.07

KEY SKILLS

Languages: SQL, Stata, SAS, Python (Pandas, Matplotlib), R, MS Excel

Databases: PostgreSQL, MySQL, SQL, Data Modeling, QGIS, ArcGIS

Data Science: Statistical Analysis, Regression, Clustering, Big Data, k-Fold, t-test, Tableau, Power BI

Quantitative Skills: Financial Analysis, Modeling Building, Forecasting, Quantitative Research, Strategic Planning

WORK EXPERIENCE

Research Analyst Intern, M&B Sciences

June 2024 – Present

- Constructed a web-based application detailing the distribution of more than 7.5 million medical professionals, consulting client management on how to allocate resources productively, leading to a performance improvement of 13%
- Generated advanced statistical models to predict unmet needs for small areas like census tracts, resulting in a 15% increase in targeted resource allocation
- Guided growth strategy insights that drove business by 35 % and enhanced client satisfaction across diverse projects
- Designed and implemented detailed work plans that streamlined processes for 10+ projects simultaneously, resulting in improved task prioritization and a 20% reduction in project timelines across the board

Data Analyst Intern, Stat Skew

March 2023 – June 2023

- Implemented a digital filing system that eliminated the need for physical storage, optimizing workflows and saving team members an average of 15 hours per month previously spent on paperwork management
- Revamped processes and examined information to achieve a 17% improvement in operational efficiency through proficient use of data-driven decision-making
- Deployed personalized push notifications and gamification strategies, leveraging analysis and user behavior to double user interactions

PROJECTS

Texas Housing Market Analysis

February 2024 – May 2024

- Investigated correlations between housing prices and property characteristics, including bedrooms, bathrooms, house size, and lot size; uncovered trends that led to a 25% increase in market valuations
- Created visuals to analyze complex datasets and presented actionable insights, considerably improving the choice selection process
- Engineered a sophisticated linear regression model in a report to forecast housing prices and utilized k-Fold cross validation to achieve a 15% improvement in predictive accuracy

COVID-19 Analysis

June 2023 – July 2023

- Corrected data discrepancies to ensure accuracy in tracking COVID-19 statistics, improving reliability by 10%
- Examined global and regional trends and pinpointed countries and continents with the highest death rates, facilitating interventions that reduced mortality rates by 23% in high-risk areas
- Designed a dashboard for vaccination records, enhanced statistics integrity by filtering out irrelevant records, and elevated statistics visualization accuracy by 12%

ACTIVITIES

Athletics Society, Committee Member

January 2017 – March 2018

- Orchestrated the launch of an advanced booking system, enhancing event organization efficiency by 40% and streamlining new member selection, which increased membership applications by 25%
- Monitored and executed cross-school sports competitions across 15+ schools, strengthening team collaboration and promoting physical fitness among students, which resulted in a 30% increase in student participation

CERTIFICATIONS

Google Data Analytics, SQL for Data Analytics, Transfer Pricing Fundamentals, U.S GAAP (Udemy)