

VISHESH GUPTA

Durham, NC | +1 217-819-1404 | vishesh.gupta@duke.edu | <https://www.linkedin.com/in/visheshvgupta/>

EDUCATION

Duke University

Durham, NC

Master of Science in Interdisciplinary Data Science; Concentration in Quantitative Finance

Expected May 2026

- Relevant Courses: Algorithmic Trading & Investments, Machine Learning, Natural Language Processing, Data Engineering, Practicing Data Science, Mathematical Finance, Data Engineering Systems.
- Societies and Clubs: Founder & Co-head Quantitative Finance and Analytics Club (QFA), Social Representative for MIDS 2026

University of Illinois at Urbana Champaign

Champaign, IL

Bachelor of Science in Computer Science and Statistics; GPA: 3.93

May 2021

- Dean's Honor List (Spring 2020, Fall 2020, Spring 2021)
- Relevant Courses: Statistics and Probability (I and II), Statistical Computing, Numerical Methods

TECHNICAL SKILLS

- **Professional Certifications:** Excel Basics for Data Analysis (IBM via Coursera), Fundamentals of Quantitative Modeling (Wharton University of Pennsylvania via Coursera), Investment and Portfolio Management (Rice University via Coursera)
- **Languages:** Python, R, Java, C++, C#, HTML
- **Database, Big Data & Visualization:** SQL, Plotly, Matplotlib, Jupyter Notebook, Rstudio, PowerBI

WORK EXPERIENCE

ShipBob, Inc.

Chicago, IL

Software Engineer - Machine Learning

Oct 2021 – May 2024

- Integrated traditional data mining techniques with machine learning algorithms and unstructured data analysis to enable forecasting of demand for inventory distribution.
- Developed a predictive model to analyze merchants historical order data, optimizing inventory distribution across fulfillment centers nationwide and achieving a 35% increase in 2-day order delivery efficiency.
- Collaborated regularly with the Engineering Head to plan roadmaps for the model and assist in stakeholder engagement, bridging the gap between the data science and developer teams.
- Upgraded the UI experience for merchants on ShipBob's dashboard increasing their engagement by 30% and reducing tickets (i.e. questions about the dashboard) by 56%.
- Constructed new databases using SQL to enhance data storage efficiency while migrating from legacy databases, leading to a 15% reduction in storage space utilization.

Duke University

Durham, NC

Research Assistant - Data Analyst

Aug 2024 - Present

- Spearheaded the collection and compilation of personal financial disclosure data across 5+ states, while actively analyzing the data to uncover trends and connections between lawmakers' financial interests and upcoming election dynamics.

PROJECTS

CME Group University Trading Challenge

Oct 2024

Tech: Financial Modeling, Risk Management, Futures Trading

- Conducted market analysis on commodities, identifying 3-5 high-probability trades per week based on the impact of global economic events, including inflation reports, supply chain disruptions, and central bank announcements.
- Guided strategic decision-making by understanding and incorporating diverse perspectives, refining and executing futures trades that consistently generated a 15% weekly portfolio increment.

Trump Vocalization & Mexican Peso Correlation Analysis (Category: Financial Analysis, Data Science)

Sept 2024

Tech: Python, Bloomberg Terminal, Python

- Conducted a time-series analysis of the USD/MXN exchange rate, examining the impact of 20+ Trump-related events from 2016-2024, and applied regression analysis to isolate the effects of political rhetoric while controlling for global market factors.
- Developed Python (Matplotlib) visualizations and validated findings with Bloomberg Terminal data, confirming peso value deviations during key periods.

Basketball Data Management (Category: Data Analysis, Supervised Learning)

Jan 2021

Tech: R studio, Excel, Python, Kaggle

- Collaborated with the Athletics Department of UIUC to analyze and summarize multiple basketball datasets, focusing on NBA and college athletes to identify trends and insights into player success trajectories.
- Segmented data by position and conference affiliation, enabling data-driven decision-making for recruiting strategies.
- Examined correlations between player career longevity, university affiliation, and conference participation, providing valuable insights into the factors influencing professional success in the NBA.