

NILESH CHOUDHARY

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EDUCATION

University of Illinois Urbana-Champaign

Master of Science, Business Analytics, Gies College of Business, 2024

GPA: 3.93/4.0

Relevant courses: Data Science and Analytics, Business Intelligence, Consumer Analytics, Data Storytelling, Enterprise Data Management, Big Data Analytics in Finance, Big Data Platforms, Quanta Mental Investments (Bloomberg)

Dwarkadas J. Sanghvi College of Engineering

Bachelor of Engineering, 2021

GPA: 7.75/10.0

Relevant courses: Logistics & Supply Chain Management, Operations Research, Economics, Finance, Accounting & Costing

SKILLS

- Programming Languages: Python (SciPy), R, C, C++.
- Data Tools and Software: Microsoft Office, Google Sheets, Google Scripts, SQL, ETL, Alteryx, Tableau, Power BI, NoSQL, Machine Learning, Causal Inference, Advanced Excel (v-lookup, pivot tables, and formulas), SSRS, SSIS, Talend, KNIME Analytics, Looker, Quicksight BI, SAS.
- Infrastructures: Amazon Web Services-S3, Redshift, RDS, Databricks, Lambda, EC2, Google Cloud Platform (GCP), Azure, Apache Spark, Hadoop, Hive, MongoDB, Big query, Snowflake, Athena, Vertica, SAP S/4HANA.

EXPERIENCE

Caterpillar

Data Science Lead (Business Practicum)

August 2023 - Present

- Spearheaded a team of 11 data scientists and analysts in model development for accurate prediction of outbound freight costs by utilizing Lasso regression for variable selection and XGBoost regression.
- Achieved great cost prediction accuracy by implementing forecasting techniques, resulting in a **90% accuracy of outbound freight cost** forecast (line haul and fuel price), leading to **cost savings of \$4.2M**.

Hansa Cequity

Data Analyst

August 2021 - August 2023

- Collaborated with cross-functional teams, particularly Data Science and Data Engineering at the client's end from media service, TV satellite, akin to Netflix, to achieve solutions for business problems via ad hoc analysis.
- Developed customer segmentation models, using K-means clustering, and random forest, to analyze customer demographics for designing targeted digital media campaigns to achieve a **40% increase in customer engagement**.
- Implemented and managed SQL stored procedures and SSIS ETL/ELT to automate data loading, transformation, and reporting tasks, resulting in 4 hours of daily reduction **in manual effort and processing time**.
- Developed and automated reports using SSRS and BI tools. Additionally, leveraged Tableau and Power BI to visualize data at a granular level. Resulted in **90% fewer reports to manage**, increasing efficiency in data-driven decision-making.

Happy Grub

Intern, Business Analyst

Jan 2020 - June 2020

- Collected data from Google AdSense, and Facebook ads to calculate key metrics such as Customer Acquisition Cost (CAC), Burn Rates, and Average Revenue Per User (ARPU), Churn, Retention to analyze and make marketing strategies to channel market budget, resulting in **40% increase in MOM users**.
- Engineered a data-driven business strategy through advanced customer patterns and market basket analysis, driving a substantial **60% increase in repeat order rates**.

PROJECTS

Laptop Price Prediction Model

Feb 2024 - Mar 2024

Python (scikit-learn, NumPy, and Auto Viz), Decision Tree Regressor, and Random Forest Regressor.

- Built an end-to-end pipeline to automatically clean data and perform necessary missing value imputation, encoding seamlessly integrated with machine learning algorithms and evaluating models based on RMSE and R2 scores.

Property Valuation Model

Oct 2023 - Nov 2023

R, Statistical Modelling, Lasso Regression, Linear Regression, Random Forest

- Researched and implemented a housing valuation model accounting for 20+ variables through a multimodel approach and achieved **10% lower MSE than the benchmark**.

Researcher Grant Matching

Jan 2024 – March 2024

Large Language Model, Retrieval Augmented Generation

- Scraped and unified data of 3000+ researchers and 100+ grants into a Dash-based web app powered by LLMs. Leveraged RAG for curating matches of grants and research.

Stock Screener Dashboard

Mar 2024 – Apr 2024

SQL, AWS cloud services (EC2, Redshift, S3) and Tableau

- Executed, Designed, and developed a comprehensive stock screener. Automated daily data ingestion using Yahoo finance and alpha vantage API and processing with Python scripts, enabling real-time analysis of stock performance and fundamentals using visualizations.