

# Shreya Das

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## EDUCATION

**University of Illinois at Urbana-Champaign – Gies College of Business**

*Expected Graduation: May 2024*

Major: Master of Science in Business Analytics (STEM)

GPA: 3.8/4.0

**University of Illinois at Chicago – College of Business Administration**

*Graduation Date: May 2022*

Major: Bachelor of Science in Information Systems and Marketing

**Awards:** Cum Laude Honors, Dean's List, Honors College, Gies Scholarship Recipient

## SKILLS & COURSEWORK

**Languages:** Python, R, SQL, VBA | **Database:** MySQL Workbench, MongoDB, NoSQL, Neo4J, AWS Redshift, Hadoop, Hive, Spark PySpark, JSON | **Cloud:** AWS, Azure ([Certified](#)), Google Cloud | **Visualization:** Power BI, Tableau  
**Coursework:** Information Systems, Data Science, Predictive Analytics, Enterprise Database Management, BI, Data Storytelling, Financial Big Data Analytics, Data Engineering, Data Modelling, AI, ETL, LLM, API, NLP

## WORK EXPERIENCE

**Discovery Partners Institute** | *Applied LLM Research and Developer Intern* | Chicago, IL

*Jan 2024 – Present*

- Collaborate with 8 students to optimize grant tracking and researcher matching via **AI integration** with LLM.
- Develop **Neo4J graph database** and **LLM** for dynamic query generation and deploy the app on **Azure**.

**Caterpillar** | *Consultant: Freight Optimization* | Champaign, IL

*Aug 2023 – Present*

- Integrate **optimization modeling** using Python in Caterpillar's parts sourcing for freight cost and timely supply chain using machine learning, **time series analysis**, forecasting costs, evaluation metrics, & **ROC-AUC**.

**HP** | *Venture Capital & Business Analytics Extern* | Champaign, IL

*Sept 2023 – Nov 2023*

- Researched key metrics, industry data, business models, product differentiation, and strategy across 500+ startups.
- Analyzed data using **pivot tables** to identify trends and recommend AI startups for potential investments.

**HEXstream, Utility Analytics, Oracle Partner** | *Marketing Analyst* | Chicago, IL

*Jul 2022 – Jun 2023*

- Designed **Power BI dashboards** to monitor digital marketing; increased 37% website traffic and 466 customers.
- Organized events for 200+ utility industry experts with an 88% success rate; reported KPIs to Directors/CEO.
- Acquired knowledge in latest utility analytics technologies like DERMS, Cloud Migrations, and ESG considerations.

## PROJECTS

**Cloud-Optimized Data Ecosystem Integration** | *UIUC* | Champaign, IL

*Oct 2023 - Dec 2023*

- Established scalable **MongoDB** clusters on Azure, securing and managing 9 GB of diverse Yelp datasets, using Python for seamless **JSON to DataFrame** conversion, facilitating comprehensive analysis of 50,000 restaurants.
- Secured **MySQL connection on Azure**, integrated essential libraries and **Python-MySQL packages** in Colab, using SQL queries to conduct competitor analysis and recommend a new restaurant establishment successfully.

**Statistical Modeling for Property Valuation** | *UIUC* | Champaign, IL

*Oct 2023 - Nov 2023*

- Employed **statistical methods** to analyze correlations and distributions in **AWS** using **R Programming** to identify key variables affecting house sale prices in Cook County.
- Engineered **machine learning** techniques including linear regression, lasso regression, and random forest in R to predict accurate sale prices for a dataset of 50,000 houses and **forecasted prices** for 10,000 houses.

**Freddie Mac's Mortgage Rate Analysis** | *UIUC* | Champaign, IL

*Sept 2023*

- Applied R programming and tidyverse in AWS environment for data analysis on Freddie Mac's mortgage data, showcasing strong **data engineering** and visualization skills.
- Extracted valuable insights on credit score distribution and regional variations in default rates, employing diverse visualization techniques, including advanced **map analysis**, line graphs, and scatter plots.

## LEADERSHIP & ACTIVITIES

• **Student Intern** | *UIUC, Office of Medicaid Innovation*

*Sept 2023 – Present*

• **Consultant** | *UIUC, Illinois Business Consulting*

*Sept 2023 – Present*

• **MSBA Student Leadership Council Member** | *UIUC, Gies College of Business*

*Aug 2023 – Present*

• **Career Navigator** | *UIUC, Career Center*

*Sept 2023 – Nov 2023*