

# Anusha Bhat

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## SUMMARY

Data Scientist with 3 years of experience in data science, analytics, & machine learning. Skilled in Python, SQL, R, Tableau, & cloud tools for end-to-end model deployment & delivering actionable insights & strategies for B2B/B2C applications.

## EDUCATION

### University of Chicago

Chicago, IL

*M.S. in Applied Data Science*

*Expected Dec. 2025*

- Relevant Coursework: Corporate Capstone, MLOps, Generative AI, Computer Vision, Big Data & Cloud Computing, Machine Learning, Algorithmic Marketing, Time Series Analysis, Leadership & Consulting, Statistical Models

### Carnegie Mellon University

Pittsburgh, PA

*B.S. Statistics & Machine Learning, Minor in Biological Sciences*

*May 2024*

- Awards: University Honors, Research Honors, Senior Leadership Recognition
- Relevant Coursework: Machine Learning, Regression, Data Structures & Algorithms, Advanced Data Analysis, Statistical Computing & Visualization, Text Analysis, AI Product Design, Statistical Inference, Multivariate Analysis, Linear Algebra

## TECHNICAL SKILLS

**Languages:** Python, R, SQL, C, Linux

**Python Libraries** NumPy, pandas, scikit-learn, TensorFlow, Keras, PySpark, PyTorch, Matplotlib, Seaborn

**Data Science Platforms & Tools:** Git, AWS, GCP, Databricks, Docker, Tableau, LakeFS, AutoML, Feature Stores

## PROFESSIONAL & CLIENT EXPERIENCE

### EvRez Argonne National Laboratory, UChicago Capstone Partner

Chicago, IL

*Data Scientist*

*Mar. 2025 – Present*

- Leading a team of 4 to develop a chatbot automating EV charging complaint resolution to improve service & reduce manual work.
- Analyzing data on customer complaints, reservations, & user behavior to inform chatbot design & system requirements.
- Conducting literature review on LLMs, fine-tuning techniques (LoRA/QLoRA), & NLP challenges; currently restructuring ticket data & fine-tuning a DeepSeek LLM with qLoRA on AWS SageMaker as the MVP solution.

### Material Bank

Boca Raton, FL

*Software Engineering Intern*

*June – July 2024*

- Analyzed 6 months of consumer data in R to identify trends in product preferences, specifications, & delivery regions, supporting inventory optimization for business partners & enhancing product recommendations for customers.
- Developed a graph database tool in Neo4j to streamline complex data queries & visualizations, significantly improving data accessibility & enabling faster, insight-driven decisions for the business & marketing teams.
- Presented insights to senior leadership, translating technical findings into actionable strategies that boosted targeted marketing efforts & operational efficiency across both partner & customer-facing applications.

### US Olympics & Paralympics Committee, CMU Capstone Partner

Pittsburgh, PA

*Data Scientist*

*Aug. 2023 – Jan. 2024*

- Developed a Python simulation to model the Olympic gymnastics competition, using linear mixed effects regression, to forecast the weighted medal counts for the US team & identify the top-performing US gymnasts for team selection.
- Led a team of 3, fostering collaboration through transparent communication & regular meetings, while ensuring timely delivery of actionable insights to clients through tailored reports, presentations, & a final poster.
- Achieved accurate predictions for 4 out of 5 male team members & event medals for both the male & female gymnasts.

## ACADEMIC PROJECTS

### Agentic Complimentary Disruption Concierge – United Airlines Hackathon (UChicago)

*Summer 2025*

- Developed a chatbot for United Airlines providing real-time flight disruption support using a RAG LLM built from scraped travel regulations, airline policies, & flight data, integrated with MCP & a policy engine, with the UI implemented in Streamlit.

### Expedia Flight Itinerary Analysis – Big Data & Cloud Computing (UChicago)

*Fall 2024*

- Processed & cleaned a 30 GB dataset using PySpark & GCS for ETL & feature engineering; created a flight route graph using shortest paths & motif finding to answer queries; & compared predictive models (regression, GBT, SARIMA) to forecast fares.

### Comparison of Beyoncé's & Taylor Swift's Lyrics – Text Analysis (CMU)

*Fall 2023*

- Performed NLP in R on a curated corpus of Beyoncé & Taylor Swift lyrics, using keyword extraction, topic modeling, stemming, regression, PCA, & multidimensional analysis to uncover linguistic & thematic trends.

## RESEARCH EXPERIENCE

### Dept. of Hematology, UPMC Hilman Cancer Center – Senior Honors Thesis

Pittsburgh, PA

*Undergraduate Research Intern*

*Jan. 2022 – May 2024*

- Independently designed & conducted experiments on tetraspanin protein interactions, analyzing data with Excel & effectively communicating complex findings to both technical & non-technical audiences via a poster, oral thesis defense, & written report.

### Dept. of Biochemistry, UMB Greenebaum Cancer Center

Baltimore, MD

*Research Intern*

*May 2021 – Aug. 2021, May 2022 – Aug. 2022*

- Investigated the role of S100B protein in melanoma metastasis, by independently managing experiments end-to-end & processing migration assay images with ImageJ & GraphPad to quantify cell migration & extract insights from complex datasets.