

# Anusha Bhat

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## SUMMARY

Data Scientist with 3 years of experience applying analytics & machine learning for B2B/B2C use cases across marketing, e-commerce, & healthcare. Skilled in Python, SQL, R, Tableau, & cloud tools for end-to-end model deployment & scaling.

## 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 & Forecasting, 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 & Data 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 (SageMaker, EC2, S3), GCP (BigQuery, VertexAI, DataProc), Databricks, Docker, Tableau, LakeFS, DataGrip, Bitbucket

## 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 issue resolution, targeting an 80% manual resolution reduction.
- Analyzing customer complaints & user behavior data with SQL in DataGrip to guide chatbot design & system requirements.
- Conducting literature review on LLMs, fine-tuning techniques (LoRA/qLoRA), & NLP challenges; currently restructuring the ticket data & fine-tuning DeepSeek LLM on AWS SageMaker with EC2 instances as the MVP.

### Material Bank

Boca Raton, FL

*Software Engineering Intern*

*June – July 2024*

- Analyzed 6 months of consumer data hosted in Bitbucket using R to identify trends in product preferences, specifications, & delivery regions, supporting inventory optimization for business partners & enhancing product recommendations for customers.
- Developed a Neo4j graph database tool to streamline complex data queries & visualizations, with the goal of reducing data access time by 60% & accelerating insight-driven decisions for the business & marketing teams.
- Presented insights to senior leadership. Translated 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 offering real-time flight disruption support using LangChain with a RAG LLM built on scraped travel rules, airline policies, & flight data in BigQuery; integrated with MCP, a policy engine, & Streamlit UI.

### 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

- Applied NLP techniques 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 Hillman Cancer Center – Senior Honors Thesis

Pittsburgh, PA

*Undergraduate Research Intern*

*Jan. 2022 – May 2024*

- Designed & executed experiments; analyzed results in Excel & communicated findings to technical & non-technical audiences.

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

Baltimore, MD

*Research Intern*

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

- Conducted independent lab experiments & performed image-based quantification using ImageJ & GraphPad for cell migration.