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 build a chatbot automating EV charging complaints, aiming to reduce manual ticket resolution by 80%.
- 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 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, 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.