Anusha Bhat

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SUMMARY

Data Scientist with 3 years of experience in end-to-end development, including data collection, analysis, visualization, & machine learning. Proficient in Python, R, Tableau, & cloud computing. Skilled at translating complex technical concepts into clear insights for non-technical audiences, & crafting data-driven business strategies for both B2B & B2C applications.

EDUCATION

M.S. in Applied Data Science | University of Chicago | Chicago, IL   **Expected Dec. 2025**

Coursework: Corporate Capstone, Computer Vision, Big Data & Cloud Computing, Machine Learning, Algorithmic Marketing, Time Series Analysis, Leadership & Consulting, Python & R for DS, Statistical Models.

B.S. in Statistics & Machine Learning | Carnegie Mellon University | Pittsburgh, PA   **May 2024**

Awards: University Honors, College of Science Research Honors, Senior Leadership Recognition

Coursework: Machine Learning, Regression, Advanced Data Analysis, Data Structures & Algorithms, Statistical Computing & Visualization, Text Analysis, AI Product Design, Statistical Inference, Multivariate Analysis, Linear Algebra; Minor in Biological Sciences.

TECHNICAL SKILLS

Programming Languages: R, Python, C, SQL

Data Science & ML: NumPy, Pandas, Scikit-Learn, PySpark, PyTorch, TensorFlow, LLM, NLP, Graph Computing, Cloud Computing (GCP, AWS), Git, Data Collection & Visualization, Algorithmic Design, Tableau, & UX/UI Principles.

PROFESSIONAL & CLIENT EXPERIENCE

Data Scientist | EVRez | Argonne National Laboratory, UChicago Capstone | Chicago, IL   **March 2025 – Present**
- Developing a chatbot for EV charging reservations to enhance employee service & reduce manual effort in complaint resolution.
- Analyzing customer complaint tickets to identify recurring issues & presenting insights in weekly client meetings, ensuring alignment with deliverables & project objectives for client satisfaction.

Software Engineering Intern | Material Bank | Boca Raton, FL   **June 2024 – July 2024**
- Analyzed 6 months of consumer data in R to uncover key insights on product preferences, specifications, & delivery regions, enabling business partners (B2B) optimize inventory & enabling customers (B2C) to receive accurate product recommendations.
- Developed a graph-based database tool in Neo4j to streamline data queries & visualizations, significantly improving data accessibility & decision-making for the business & marketing teams.
- Delivered presentations to senior leadership, effectively translating technical findings into actionable strategies that drove targeted marketing & operational efficiencies for both B2B & B2C clients.

Business Analytics & ML Intern | SENS Psychology | Washington D.C.   **Jan. 2024 – Mar. 2024**
- Developed & executed targeted SEO strategies to increase website & social media traffic, improving online visibility for the clinic.
- Initiated the development of a mobile app to create a virtual conversation coach for couples counseling.

Data Scientist | US Gymnastics Olympics Simulation | USOPC, CMU Capstone | Pittsburgh, PA   **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.
- Partnered with clients to analyze data & identify the top-performing US gymnasts for the Paris 2024 Olympics, delivering actionable insights through weekly meetings, detailed 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

Market Segmentation & Recommendation | Algorithmic Marketing   **Winter 2025**
- Identified product associations using market basket analysis & clustered customers for tailored promotional strategies.
- Developed recommender system in Python to suggest products based on transactional patterns from similar households.

Predicting IBM Employee Attrition | Machine Learning I   **Winter 2025**
- Segmented employees with K-prototypes clustering & predicted attrition with logistic regression, GBT, & Random Forest models.
- Conducted cluster-wise regression, applied SMOTE, & compared model performances, enhancing targeted retention strategies.

Expedia Flight Itinerary Analysis | Big Data & Cloud Computing   **Fall 2024**
- Cleaned a large dataset using GCS & PySpark, applying ETL strategies for feature engineering & imputation.
- Designed a graph model for US flight routes, utilizing shortest paths, motif finding, & PageRank to address customer queries.
- Developed & compared predictive models (regression, gradient boosting trees, SARIMA) to forecast flight fare prices.

Comparison of Beyoncé's & Taylor Swift's Lyrics | Text Analysis   **Fall 2023**
- Curated a text corpus of Beyoncé & Taylor Swift lyrics, applying NLP techniques in R to analyze token usage, themes, & patterns.
- Used techniques such as keyword extraction, topic modeling, stemming, regression, multidimensional analysis, & PCA.

RESEARCH EXPERIENCE

Undergraduate Researcher | Dept. of Hematology, Hilman Cancer Center | Pittsburgh, PA   **Jan. 2022 – May 2024**
- Designed & executed experiments to study tetraspanin protein interactions, utilizing Excel for data analysis & visualization.
- Presented findings to technical & non-technical audiences, translating intricate research into clear, actionable insights.

Research Intern | Dept. of Biochemistry, Univ. of MD | Baltimore, MD   **May 2021 – Aug. 2021, May 2022 – Aug. 2022**
- Investigated the role of S100B protein in melanoma metastasis, managing experiments from hypothesis formulation to analysis.
- Processed migration assay images with ImageJ & GraphPad to quantify cell migration & extract insights from complex datasets.