

Bhargav Uday Shivbhakta

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Summary

Data analytics practitioner skilled in extracting, transforming, and analyzing structured datasets with Python and SQL to drive data-driven decisions. Experienced in exploratory data analysis, feature engineering, and statistical modeling, leveraging Power BI and Docker to develop robust data infrastructure. Demonstrated ability to translate complex data into clear, impactful reports and tools that support stakeholder decision-making.

Education

San Diego State University

M.S., Computer Science

- **Coursework:** Statistical Learning, Database Systems, Distributed Systems

Aug 2025 - May 2027

San Diego, CA

MIT World Peace University

Post Graduate Diploma, Artificial Intelligence & Machine Learning

Jul 2024 - Jun 2025

Pune, India

P.E.S. Modern College of Engineering

B.E., Electronics & Computer Engineering (GPA: 9.2/10.00)

- **Achievements:** University Rank 4

Jul 2020 - Jun 2024

Pune, India

Technical Skills

- **Programming:** Python, SQL, R, Java
- **Analytics & ML:** Regression, Classification, Feature Engineering, Cross-Validation, Statistical Modeling, Hypothesis Testing, Data Analysis
- **Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib
- **Visualization:** Power BI, Tableau (Conceptual), Data Visualization Techniques
- **Databases:** PostgreSQL, MySQL
- **Tools:** AWS (EC2, S3), Docker, Git, Excel

Professional Experience

Pisces Lab, San Diego State University | *Research Assistant – Data Analytics*

Feb 2026 - Present

- Conducted exploratory data analysis (EDA) on structured grading datasets using Python, SQL, and Excel to uncover performance distribution trends across student cohorts, informing curriculum adjustments
- Engineered analytical features from rubric scores and submission metadata with Python, pandas, and Docker, enabling evaluation of grading consistency and detection of variance patterns that improved grading reliability
- Applied percentile-based statistical analysis in R to assess latency distributions and identify operational anomalies, supporting timely interventions in the grading process
- Generated insight reports using Excel and Power BI techniques to support data-driven optimization of grading workflows and academic resource allocation

TechR Business Solutions | *Software Engineering Intern*

Nov 2022 - May 2023

- Analyzed high-volume transactional datasets using SQL and Excel to identify inefficiencies, contributing to a ~30% improvement in query performance
- Interpreted PostgreSQL query execution plans to locate redundant joins and inefficient access paths, reducing report generation time and improving workflow efficiency
- Monitored production metrics in AWS EC2 and CloudWatch for data intensive applications, identifying issues early and maintaining system reliability

Projects

AI-Driven Health & Nutrition Assistant

Aug 2025 - Jan 2026

- Designed ML-powered recommendation system leveraging MiniLM SentenceTransformer embeddings and FAISS indexing over 2.5M+ nutrient-annotated recipes.
- Achieved precision@10 = 0.96 with average retrieval latency < 10 ms through ANN optimization and 74% vector compression.
- Applied constraint-based optimization modeling achieving <5% macro deviation in personalized meal plan generation.
- Deployed interactive analytics interface via Streamlit to support explainable, real-time decision-making.

E-Commerce Revenue & Retention Analytics

Jan 2026 - Present

- Performed exploratory data analysis on 50,000+ transactions to identify revenue drivers and seasonal purchasing trends.
- Engineered customer-level features and applied SQL window functions to conduct cohort and retention analysis.
- Developed segmentation models to classify high-value and repeat customers.
- Generated KPI-driven dashboards supporting revenue growth and customer engagement strategy.