

HEET PATEL

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EDUCATION

Northeastern University

Boston, USA

Master of Science in Computer Science (Specialization: Systems and AI)

Expected Graduation: May 2027

Relevant Coursework: Machine Learning, Statistics, Data Science, Data Structures & Algorithms

Gujarat Technological University

Ahmedabad, India

Bachelor of Technology in Information Technology

May 2025

WORK EXPERIENCE

Quantum Tree Tech

San Francisco, USA

Software Engineering Intern (Data Analytics)

January 2025 - May 2025

- **Increased content analysis accuracy by 85%** improving product relevance for 500+ users, by conducting statistical analysis on 50K+ data samples using Python, identifying patterns in user behavior and translating findings into actionable product recommendations for engineering team
- **Reduced query response time by 90% (45s → 5s)** enabling real-time user experience, by pulling and analyzing 1M+ records from databases using SQL queries with complex joins and aggregations, formulating optimization strategies based on data-driven insights
- **Delivered 5 strategic presentations to cross-functional stakeholders** including product managers and engineering leads, creating visual displays of quantitative analysis using Python visualization libraries (Matplotlib, Seaborn), articulating cost-benefit analysis that informed 100K+ *investment decisions*

PROJECTS

Product Analytics Dashboard for User Engagement — Python, SQL, Tableau

Sep 2024 - Dec 2024

- **Improved user retention by 40%** through data-driven product recommendations, by conducting cohort analysis on 100K+ user records using SQL and Python (Pandas, NumPy), performing A/B testing with statistical significance testing (t-tests, chi-square), and presenting actionable insights to stakeholders
- **Forecasted 3-month user growth with 92% accuracy** enabling strategic resource planning, by building time-series forecasting models using R (ARIMA, Prophet), analyzing seasonal trends and patterns, creating Tableau dashboards visualizing key metrics and trends for product team

Predictive Analytics for Business Decision Making — Python, SQL, MATLAB, ML

Jun 2024 - Aug 2024

- **Reduced customer churn by 35%** increasing annual revenue by \$200K+, by building predictive models using Python (scikit-learn, XGBoost) on 50K+ customer records, identifying high-risk segments through statistical clustering, recommending targeted retention strategies based on data analysis
- **Performed impact analysis on 10+ product features** using statistical hypothesis testing and regression analysis with MATLAB, pulling data from multiple databases using complex SQL queries, articulating findings through executive presentations with data visualizations

Real-Time Metrics Analysis Platform — Python, SQL, R, Statistical Modeling

Jan 2024 - Apr 2024

- **Enabled data-driven decisions for 3 product teams** by building automated analytics pipeline processing 1M+ daily events, using SQL for data extraction, Python for statistical analysis, and R for advanced modeling, creating scaled deliverables with scheduled reporting reducing manual analysis time by 80%
- **Identified \$150K cost-saving opportunity** through invest-divest analysis, by analyzing resource utilization data across 20+ product initiatives using statistical methods, measuring ROI and program effectiveness, presenting recommendations that influenced budget allocation decisions

TECHNICAL SKILLS

Statistical Analysis: SAS, MATLAB, Python (NumPy, Pandas, SciPy), Statistical Modeling, Hypothesis Testing, A/B

Data Analysis: SQL (Complex Queries, Joins), Data Mining, Data Visualization, Exploratory Data Analysis

Programming: Python, MATLAB, SQL

Visualization & BI: Tableau, Matplotlib, Seaborn, Plotly, Data Storytelling

Machine Learning: scikit-learn, XGBoost, TensorFlow, Predictive Modeling, Time-Series Forecasting

Business Analytics: Cost-Benefit Analysis, Forecasting, Impact Analysis, A/B, Cohort Analysis, Program Evaluation