

# Sai Bysani

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## SUMMARY

Data Analyst with 2+ years of experience, driving **30-75% performance improvements** through predictive analytics. At **Apple and Microsoft**, developed solutions that increased **user retention and customer adoption by 15-22%**. Skilled in transforming complex datasets into **actionable insights** that reduce costs and accelerate growth.

## EDUCATION

**University of Pennsylvania** Aug 2022 – May 2024  
*Master of Science in Computer Science*

- GPA: 3.9/4.0
- **Coursework:** Data Mining, Machine Learning, Statistical Computing, Computer Architecture, Comparison of Learning Algorithms, Computational Theory

**Amrita University** Aug 2018 – May 2022  
*Bachelor of Science in Electrical*

- **Coursework:** Machine Learning, C, C++, Digital Systems

## EXPERIENCE

**Data Analyst** Cupertino, CA  
*Apple* July 2024 – Present

- Reduced chat load times by 75% through predictive analytics and data optimization, improving user satisfaction from 3.7 to 4.5 and cutting server costs by 30%
- Developed and implemented a metadata extraction tool, improving the search accuracy of archived chat conversations, resulting in a 40% increase in retrieval efficiency
- Designed and deployed an interactive Tableau dashboard to monitor key performance indicators (KPIs) related to user engagement, which led to a 15% improvement in user retention strategies

**Data Analyst Intern** Redmond, WA  
*Microsoft* May 2022 – Aug 2022

- Engineered an automated data pipeline using SQL and Python, reducing manual data processing efforts by 60% and improving overall operational efficiency
- Optimized code performance from  $O(n^2)$  to  $O(n \log n)$  with similarity analysis tool, improving system speed by 35% and saving \$75K in annual cloud costs
- Increased enterprise adoption by 22% through Power BI performance visualizations, growing Visual Studio client base from 156 to 190 customers

## PROJECTS

**Customer Churn Prediction Model** Sep 2023 – Mar 2024

- Developed a machine learning model in Python using logistic regression and random forests to predict customer churn with 85% accuracy
- Visualized insights in Tableau, leading to proactive customer retention strategies and a 20% decrease in churn

**Sales Forecasting Dashboard** Jan 2023 – May 2023

- Built a Power BI dashboard analyzing historical sales data to predict future trends, improving demand forecasting by 30%
- Integrated SQL queries to dynamically update visualizations with real-time data
- Applied time-series forecasting models, such as ARIMA and Prophet, to improve revenue projections

## SKILLS AND CERTIFICATIONS

**Data Analysis & Visualization Tools:** SQL Server, MySQL, Python (Pandas, NumPy, Scikit-Learn, Matplotlib), AWS, PySpark, Power BI, Tableau, Power Automate, MS-Excel

**Technical Expertise:** Machine Learning, Statistical Analysis, A/B Testing, Experimentation, Feature Engineering, Random Forest

**Functional Expertise:** Product Sense, Metric Tracking, Visualization, Collaboration, Stake Holder Management