

# Sai sadhan Saravanan

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## EDUCATION

*W.P. Carey School of Business, Arizona State University, Tempe, AZ* **July 2024**  
**Master of Science in Information Systems Management, Specialization: Data Analytics** **GPA: 4.00/4.00**  
Relevant Coursework: Big Data Analytics, Machine Learning, Enterprise Processes & Systems, Data Governance, Project Management  
**Honors: Dean's List, Beta Gamma Sigma Honors, International Scholarship Awardee**

*Anna University, Chennai, India* **September 2020**  
**Bachelor of Engineering in Electronics and Communication, Honors: First Class** **GPA: 7.09/10.00**

## PROFESSIONAL EXPERIENCE

**Graduate Assistant – Business Intelligence**, Arizona State University, Tempe, AZ **November 2023 - December 2023**

- Collected consumer data by developing surveys, performed data cleaning, and created a reliable dataset for efficient analysis
- Developed insightful dashboards in Tableau, identified a demand-supply shortage of 21% in the on-campus retail market
- Presented the findings using data visualization dashboards, showcasing untapped business opportunities and growth prospects

**Software Engineer**, Cognizant, Chennai, India **March 2021 - July 2023**

- Analyzed large volumes of data, and created reports and dashboards, provided actionable insights to 5 fintech senior leadership
- Initiated and developed a recommendations module to complete tasks on time, increasing business users' productivity by over 15%
- Automated and scheduled processes by scripting SQL queries and Python, reducing manual efforts by 12 hours per week
- Provided 300+ technical resolutions including data storage solutions, enhancements, and resolving bugs by scripting code/data fixes
- Led 5+ clients' engagements, gathered functional and non-functional requirements, facilitated UAT testing, communicated release plans, prepared BRD, as-is system process flows, and deployment documents, and offered user training for over 35 releases

**Software Engineer Intern**, Cognizant, Chennai, India **Dec 2019 – Jan 2020**

- Spearheaded an e-commerce website project as a POD leader, managing a team of 6 software engineer trainees efficiently
- Implemented end-to-end SDLC using agile/Scrum methodologies, delivered 200+ user stories in 4 sprints, ensuring quality
- Developed highly scalable and available data storages, ensuring data standards and readiness for data analysis

**Data Analyst Intern**, Nokia Solutions and Networks, Chennai, India **November 2017 - December 2017**

- Performed data preprocessing, exploratory data analysis (EDA) of machines' data, generated a statistical depiction of trends
- Supported data scientists on predictive modeling for maintenance in machines and strategic production process optimization initiatives, optimized resource allocation, and production workflow, achieved a 13% increase in production throughput

## PROJECT EXPERIENCE

**Social Media Sentiment Analysis - Python, LLM, NLP** **May 2024**

- Leveraged 5 **Python API wrappers** for data extraction of gamers' Reddit discussions on the game "Valorant"
- Determined sentiments of gamers using natural language processing with Google BERT, and Llama2 LLM using Python LangChain
- Applied LDA topic modeling to uncover topics in sentiment labels, and identified strategies to improve player retention by 16%

**Predictive Modeling for Credit Card Default Risk Assessment - Python, unsupervised Learning** **February 2024**

- Predicted customer's credit card bill repayment probability by analyzing the credit history and other socioeconomic factors
- Performed feature engineering to select relevant variables, enhancing model performance, built decision tree, and ensemble tree models, evaluated with cross-validation based on accuracy and AUC, chose AdaBoost for its high accuracy of 83%
- Derived actionable insights from the prediction, and recommended strategies to mitigate credit risk and improve customer retention

**Customer Segmentation Analysis - Python, Supervised Learning** **January 2024**

- Performed data preprocessing, utilized Silhouette analysis and the Elbow Method to determine the optimal number of clusters K
- Applied K-Means Clustering, and identified 3 distinct customer segments based on purchasing behavior, demographics, and socio-economic factors
- Analyzed the characteristics of identified clusters, and suggested actionable insights for targeted marketing strategies

## TECHNICAL SKILLS

**Programming Languages:** SQL, Python, HTML, C#, CSS, JavaScript

**Data Storages:** Microsoft SQL Server, MYSQL, Google BigQuery, Redshift

**Tools and Technologies:** Tableau, SSRS, Microsoft Excel; SSMS, SSIS, Visual Studio Code, Git, Jupyter Notebook; GCP, AWS, Gen AI / LLM, Draw.IO; Microsoft Office Suite, Jira, ServiceNow

**Certifications:** [Google Advanced Data Analytics](#), [Google Associate Cloud Engineer](#), [Microsoft Azure Fundamentals](#)