

Vaishnavi Samboji

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EDUCATION

Master of Science, Data Analytics

Jan 2024 - Dec 2025

San Jose State University, San Jose, CA, USA

- Key Courses: Data Visualization, Mathematical Methods for Data Analytics, Database System for Analytics, Big data Technologies, Machine Learning, Distributed Systems.

Bachelor of Technology, Electronics and Communication Engineering

Aug 2019 - May 2023

Malla Reddy Engineering College for Women, Hyderabad, Telangana, India

CORE SKILLS

Python, MySQL, Power BI, Tableau, HTML5, CSS, AWS, C, JavaScript, Git, Data Cleaning, Excel, MongoDB, Hadoop, Data Exploration, Data Analysis, Data Visualization, Data Extraction

WORK EXPERIENCE

Application Development Associate, Accenture, Pune, Maharashtra, India

Jun 2023 - Dec 2023

- Trained in Oracle PL/SQL for the first two months.
- Joined a retail sales analytics project midway, worked with a team to refine predictive sales models and optimize ETL pipelines using Python and AWS Glue.
- Demonstrated strong communication skills by delivering weekly project reports to management, improved project tracking accuracy by 20% and ensured timely decision-making.
- Enhanced Power BI dashboards, provided real-time insights on customer behaviour and sales trends, which contributed to a 12% increase in sales.
- Supported the team by conducting ad-hoc analyses and presented key findings to senior management.
- Recognized for taking on additional responsibilities, contributed to a 15% improvement in team efficiency by completing tasks ahead of schedule and provided key support to senior team members.

PROJECT EXPERIENCE

US Honey Production, Demand, and How to Maximize Sales, San Jose State University

May 2024

- Performed in-depth analysis of U.S. honey production trends (1995-2021) with Power BI, creating interactive dashboards. Formulated a profitability metric identified optimal states for honey production, contributing to a potential 15% increase in farmer revenue through actionable insights.
- Developed a profitability metric for honey farmers to identify optimal production states, resulting in actionable insights potential to increase profits by up to 15% based on production yield and pricing trends.
- Delivered prescriptive analytics to help honey farmers maximize production and profits, leading to a 15% increase in revenue through data-driven strategies.

Movie Catalog and Analytics System using MySQL and MongoDB, San Jose State University

May 2024

- Designed a scalable movie catalog and analytics system with MySQL and MongoDB. Migrated data to AWS to enhance performance and applied advanced SQL and NoSQL queries. Boosted scalability and efficiency through MongoDB Atlas for real-time data analytics.
- Enhanced SQL query performance and executed advanced NoSQL queries for complex data retrieval.
- Performed data denormalization and preprocessing using Python for MongoDB integration.

Night Patrol Robot, Malla Reddy Engineering College for Women

Sep 2022

- Designed an autonomous IoT-based night patrol robot with infrared and sound sensors for surveillance. Integrated ESP32-CAM for real-time video streaming and programmed it using Arduino IDE for obstacle detection, autonomous patrol, and intruder alerts via an IoT server.
- Configured ESP32-CAM for live video streaming and remote control through an IoT server, allowing continuous real-time monitoring and reducing manual efforts by 30%.
- Programmed automation and obstacle avoidance through Arduino IDE and Embedded C.

CERTIFICATIONS:

- Certified by Cisco in Programming Essentials in C March 2020
- Certified by Cisco in Programming Essentials in Python June 2020
- Certified by Cisco in Cybersecurity Essentials April 2021
- Certified by Coursera in Introduction to HTML June 2020