

MOHIT MALU

San Diego, CA	Email: mmalu9864@sdsu.edu	+1 (858) 588-2086	https://www.linkedin.com/in/mohit-malu/
---------------	---------------------------	-------------------	-----------------------------------------------------------------------------------------------

PROFESSIONAL SUMMARY

Data Scientist with hands-on experience in Python, ML modeling, and big data analysis. Skilled in using advanced algorithms to derive actionable insights from structured and unstructured datasets.

SKILLS

- **Programming Languages:** Python, SQL, Shell Script, R, MATLAB.
- **ML & Data Science:** Scikit-learn, Pandas, NumPy, ML Pipelines
- **Big Data:** Spark, Hadoop, Sagemaker AI, NLP
- **Visualization:** Matplotlib, Seaborn, Power BI, Tableau

PROFESSIONAL EXPERIENCE

- **San Diego State University**
Research Assistant: 08/2024 – Present **San Diego, CA**
 - Analyzed foot traffic data using Python (pandas, NumPy), performed regression and time-series modeling to evaluate business success.
 - Developed ML models using scikit-learn and clustering (KMeans) to predict regional mental health trends based on survey data.
 - Cleaned, visualized, and interpreted datasets using pandas, Seaborn, and Tableau; presented insights via dashboards.
- **Akshay Embedded Systems Pvt. Ltd.**
Data Scientist: 08/2019 - 12/2021 **Pune, India**
 - Led exploratory data analysis and hypothesis testing on sensor and controller logs from Honeywell PI and SCADA systems to uncover patterns in system failures, latency, and usage behavior.
 - Deployed supervised learning models in Python (scikit-learn) to detect anomalies in time-series performance data, improving early fault detection by 18%.
 - Engineered features from raw sensor signals, controller states, and metadata to train predictive models for hardware failure risk and maintenance scheduling.
 - Designed and deployed operational dashboards in Tableau to communicate insights to engineering and production teams, enabling real-time monitoring of system health.
 - Utilized AWS S3 and EC2 to manage model deployment workflows and scalable log ingestion pipelines for downstream analysis.
- **Junior Testing Engineer: 01/2018 - 08/2019** **Pune, India**
 - Conducted statistical analysis of embedded system test logs using Python and R, identifying trends and recurring faults across device families.
 - Built regression models and clustering-based diagnostics for system validation, reducing time to resolution in QA cycles.
 - Deployed automated data wrangling scripts to clean and normalize historical logs, increasing the quality of training datasets for ML tasks.
- **Seven Mentor Pvt. Ltd.**
Intern Engineer: 07/2017 - 12/2017 **Pune, India**
 - Conducted SQL data analysis and created optimized queries for efficient data management.
 - Supported diverse database administration tasks, including data retrieval, manipulation, and optimization.
 - Applied SQL expertise to extract actionable insights, directly contributing to improved business decisions.

PROJECTS

- **Professional Project: 08/2018 – 02/2019** **Pune, India**
Predictive Maintenance using PI Controller Logs, Akshay Embedded Systems Pvt. Ltd.
 - Modeled fault events from historical controller data using time-series forecasting and anomaly detection algorithms.
 - Deployed a prototype ML pipeline integrating Honeywell logs via AWS S3, supporting near-real-time inference and Tableau-based alerting.
- **Academic Project: 08/2022 – 12/2022** **San Diego, CA**
Mental Health Attitude across Geography
 - Engineered a comprehensive big data pipeline to analyze geographic and demographic trends in mental health across distributed systems.
 - Built a Python-based ML model to study variations in mental health by work environment and region, earning third place out of 15 teams in the Decision Support Systems class.

EDUCATION

- **Master of Science: Information Systems, 08/2022 – 05/2024**
San Diego State University, CA. **Aggregate: 3.6 GPA**
Coursework: Enterprise Database Management, Business System Analysis and System Design, Information Security Management, Project Management.
- **Bachelor of Engineering: Electronics and Telecommunication Engineering, 08/2013 – 05/2017**
Pune University, India. **Aggregate: 3 GPA**
Coursework: Electronic Product Design, Network Management, Signals and Systems, Digital Signal Processing, Image Processing, Machine Learning.

CAMPUS INVOLVEMENT

- **Student Assistant : 05/2023-05/2024** **San Diego, CA**
Office of Housing and Residential education
 - Served as the primary liaison for student residents, addressing queries and resolving issues while demonstrating strong problem-solving skills.

COMMUNITY LEADERSHIP AND ENGAGEMENT

- **Gunvantiben Thakkar NGO, Manager, 02/2022 – 06/2022** **Latur, India**