

Sai Vikas Malladi

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PROFILE SUMMARY

Strategic Data Analyst with a Master's in Data Science and a proven ability to transform raw data into actionable business insights. Experienced in predictive modelling, workflow automation, and dashboard development across public and private sector environments. Skilled in Python, SQL, R, Power BI, and Tableau, with hands-on projects in health analytics, retail optimisation, and regulatory intelligence. Recognised for combining analytical depth with clear communication. Driven by curiosity and outcomes, I excel in solving complex challenges through data-driven, innovative solutions.

SKILLS

Programming & Tools: Python, R, SQL, Git, Power BI, Tableau.

Libraries & Frameworks: Pandas, NumPy, Scikit-learn, NLTK, Matplotlib, ggplot2.

Techniques: Regression, Classification, Clustering, Forecasting, Statistical Modelling, ETL, Data Cleaning.

Data Science Workflow: Feature Engineering, Model Evaluation, Hyperparameter Tuning, Dash boarding

Statistical & ML Techniques: Time Series Forecasting (ARIMA, decomposition), ANFIS (neuro-fuzzy modelling), Dimensionality Reduction (PCA), Model Evaluation (AUC, F1, RMSE), Clustering (K-Means, DBSCAN).

Soft Skills: Analytical thinking, attention to detail, problem-solving, storytelling, team collaboration, time management, adaptability.

EDUCATION & QUALIFICATIONS

Master of Data Science

University of South Australia, Australia

July 2021 to April 2024

Bachelor of Computer Science and Technology

Sathyabama Institute of Science and Technology

July 2016 to May 2020

PROJECTS & RESEARCH

Integrated Retail Analytics & Optimisation System

Capstone Project | Python, SQL, Power BI, Scikit-learn, Tableau, Excel, Git

- Developed a full-scale Data pipeline combining transaction data, customer demographics, and seasonal trends to generate actionable business insights.
- Designed and executed ETL workflows using Python and SQL to clean, normalise, and integrate multi-source datasets.
- Built predictive models (Random Forest, XGBoost) for customer segmentation, demand forecasting, and price sensitivity analysis.
- Delivered end-to-end data science workflow with interactive dashboards in Power BI/Tableau and presented insights to stakeholders.

Predictive Modelling for Real-Time Weather Forecasting

University of South Australia | Python, Power BI, Scikit-learn, ARIMA.

- Developed an automated ETL pipeline to ingest and clean historical and real-time weather Data from multiple sources.
- Implemented ARIMA and Random Forest models for multi-step time series forecasting and event classification.
- Tuned model parameters using cross-validation and performance metrics (RMSE, MAE) to improve forecast accuracy.
- Created interactive Power BI dashboards to visualise short-term forecasts and inform operational planning.

Sentiment and Mental Health Analysis from Reddit

Independent Project | Python, NLTK, Scikit-learn, Tableau.

- Scraped and pre-processed Reddit posts using NLP techniques (tokenization, lemmatization).
- Engineered features from text data (TF-IDF, sentiment scores) to classify Mental Health indicators.
- Built and evaluated classifiers (Logistic Regression, Naive Bayes) to detect anxiety/depression-related language.
- Shared insights via interactive Tableau dashboards to inform content moderation and public awareness efforts.

[Electricity Consumption Forecasting using ANFIS](#)

Academic Research Project | MATLAB, Python

- Developed a hybrid prediction model combining fuzzy logic and neural networks (ANFIS) to forecast electricity consumption.
- Pre-processed and normalised weather and usage data using Min-Max scaling to optimise the model performance.
- Trained and validated the ANFIS model on real-time datasets, achieving superior accuracy compared to traditional ANN and regression approaches.
- Demonstrated the model's potential for informing energy planning and policy with an 8% annual increase trend forecasted.

WORK EXPERIENCE

Administrative Support Officer | SA Government

Aug 2024 to Present

- Managed sensitive government datasets across CRM, adjudication, and compliance systems—ensuring zero audit discrepancies and full regulatory alignment.
- Spearheaded data governance enhancements, increasing process consistency by 20% and cutting CRM outages by 15% via IT-led workflow redesigns.
- Led adjudication reviews involving legal, criminal, and training Data—preparing evidence-based recommendations for tribunal and court deliberations.
- Synthesised operational and policy datasets into executive insights—directly informing cross-departmental strategy in education, law, and compliance.

IT Support Consultant | University of South Australia**March 2022 to July 2024**

- Administered CRM and document management systems for 500+ users, ensuring consistent data integrity and uptime.
- Diagnosed and resolved Tier 1 and Tier 2 hardware/software issues, achieving a 95% satisfaction rate in IT support tickets.
- Created and maintained SOPs for technical processes, leading to a 20% reduction in training time for new hires.
- Collaborated with cross-functional teams to implement service improvements, enhancing IT response efficiency by 15%.

Store Manager | Oporto**May 2022 to April 2025**

- Directed operations of a high-traffic quick service restaurant with 40+ team members, achieving a 4.2% year-over-year profit growth.
- Leveraged sales and customer data to optimise staffing and inventory, reducing waste by 18% and improving order accuracy.
- Spearheaded training programs that increased team productivity and reduced onboarding time by 25%.
- Ensured full compliance with food safety and labour regulations during high-volume service periods, resulting in zero audit penalties.

Data Analyst | Freelance**Jan 2020 to July 2024**

- Developed machine learning solutions using Python, R, and TensorFlow—solving problems in forecasting, classification, and process automation.
- Delivered client projects across research and industry, blending academic rigour with real-world implementation.
- Contributed to patent-backed innovations and published research, applying advanced analytics to novel problem spaces.
- Translated complex technical outcomes into dashboards, reports, and insights used by decision-makers across teams.

VOLUNTEER & COMMUNITY INVOLVEMENT

- **Uni Mentor**, University of South Australia | Mar 2022 – Mar 2024
- **Volunteer**, Adelaide Fringe Festival | Jan 2024 – Apr 2024