

PARAMESHWARAN ARRAKUTTI ANANDHAKUMAR

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📍 Buffalo, New York,USA

EDUCATION

University at Buffalo, The State University of New York Masters in Data Science	Aug 2025 - Dec 2026
Anna University (Chennai, India) Bachelors in Information Technology CGPA: 8.64/10	Aug 2018 - May 2022

SKILLS

Machine Learning:Supervised Learning, Unsupervised Learning, Neural Networks, Deep Learning, Ensemble Learning, Stacking Models, Random Forest, XGBoost, CatBoost, Logistic Regression, Decision Trees, K-Means, ARIMA, SVM, Gradient Boosting, Cross-Validation, Hyperparameter Tuning.

ML Libraries & Tools: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, SciPy, Matplotlib, Seaborn, Plotly

Programming Languages: C, Python, Java, Abap, R.

DataEngineering & Pipelines: ETL, Feature Engineering, Data Cleaning, Data Preprocessing, Data Quality (Informatica MDM), SAP Data Extraction

Visualization Tools: Power BI, Alteryx, Excel

WORK EXPERIENCE

Software Data Analyst - Ford Motor Company	Jul 2022 - Jul 2025
Facilitated business workshops with process owners and stakeholders to capture and analyze the requirements, ensuring alignment with organizational needs.	
Built and deployed Python based forecasting models for Service Parts Planning using time-series and regression methods, improving accuracy and contributing to a 25% in parts revenue across three regions.	
Processed and analyzed 10,000+ sales orders using SQL,Python and Excel ; automated data-cleaning scripts and reduced order backlog by 50% .	
Designed and built scalable data and reporting infrastructure using SQL, PowerBI and Alteryx to support global operations and key business KPIs.	
Automated Vanning report using Python and DAX , eliminating 14 hours per week of manual logistics work.	
Performed ETL , data extraction , and data harmonization using SQL and Informatica MDM to maintain high-quality SAP Master data.	
Collaborated with engineering, analytics, and product teams to convert insights into system enhancements and operational optimizations.	

PROJECTS

Mental Health Prediction Using Stacked Ensemble Learning: Built a stacked ensemble model combining **CatBoost, Random Forest, Neural Network** base learners with a **Logistic Regression meta model**.Implemented full ML Pipeline including data cleaning, feature encoding, model training, cross validation, and evaluation using AUC, F1-Score and recall.

Loan Default Risk Prediction Model: Developed ML models using **Logistic Regression, Random Forest, XGBoost** for credit risk classification.Applied feature engineering, data preprocessing, and Optuna hyperparameter tuning.Validated performance using KS statistic and Gini coefficient, improving prediction reliability.

Sales Forecasting: Implemented **ARIMA and regression-based forecasting models** to predict product demand.Improved forecast accuracy by 18% and supported inventory planning using Power BI dashboards.

Airline Passenger Satisfaction Analysis: Performed end-to-end preprocessing feature encoding, scaling , missing value handling and exploratory analysis using Python. Delivered actionable insights to identify key drivers of customer satisfaction.

CERTIFICATIONS AND WORKSHOPS

Google Advanced Data Analytics Professional Certificate — 2025

Top Achiever Award Ford — 2022, 2024

SAP Certified Application Associate - S/4 HANA Sales Trained and Certified in Sales and Distribution — 2023

Smart India Hackathon Inter-college - Winner — 2020