

PARAMESHWARAN ARRAKUTTI ANANDHAKUMAR

✉ parameshwarananandhakumar@gmail.com ☎ +1 716-303-9675 ⚙ Parameshwaran Anandhakumar
📍 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