RAMANATHAN MURUGAPPAN

Experienced Data Scientist proficient in Data Engineering, Machine Learning, Statistical Modeling, Data Mining, and Visualization with 5+ years of expertise.

PROFESSIONAL EXPERIENCE

Data Science Analyst

Accenture AI-Hub | Global Consulting and Technology Company driving innovation in Data science, offering Advanced Analytics Solutions

Aug 2021 - Present

Bangalore

- Fee-Optimizing Model Developed a fee-optimizing model using Segmentation and Profiling techniques on payments and collections data. Utilized feature engineering to create a diverse range of features, including statistical, historical, and business-related aspects. Collaborated with the on-site strategy team to validate hypotheses and convert them into actionable recommendations. Automated web scraping for data collection and conducted detailed analysis to support the fee-optimizing strategy for Plasma Donation.
- Structured Data Extraction Package Developed a cost and time-saving package that replaces the OCR method by converting unstructured data in docx files, particularly Form documents, into key-value pairs. This innovative solution transformed unstructured data into structured data, eliminating the need for OCR and enabled efficient analysis and utilization of the information.
- Centralized Marketing Database Created a centralized database for
 efficient campaign email programs by consolidating data from
 multiple marketing teams. This platform eliminates duplication and
 enables the collection, storage, and analysis of large datasets from
 various sources. The centralized database, serves as a central
 repository for targeted audience data, enhancing the effectiveness of
 email campaigns for one of the MAANG Companies' Products.

Data Science Analyst

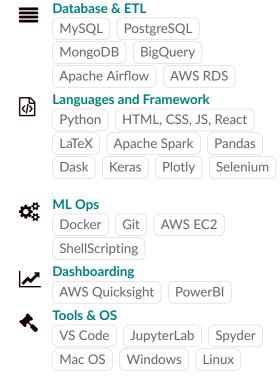
Kaleidofin | Series B FinTech Startup serving the Underbanked Space, backed by BHARAT Inclusion, Omidyar Network & BLUME Ventures

math Dec 2019 - Aug 2021

• Chennai

- Credit Risk Model Developed a comprehensive Risk model using
 machine learning techniques such as Bagging and Boosting, like
 Random Forest and XGBoost. This model leverages transaction data,
 demographics data, and credit bureau data from multiple MFI
 partners to assess risk. Additionally, the model is capable of scoring
 new-to-credit and new-to-MFI customers. Conducted regular
 monthly Risk analysis, including geographical analysis and model
 performance evaluation, leading to optimizations in the production
 code base.
- Payment Prediction Model Developed an end-to-end prediction model utilizing machine learning techniques such as XGBoost, LightGBM, and GridSearchCV for hyperparameter tuning. This model accurately predicts customer payments, leading to improved efficiency and optimization of Kaleidofin's in-house call center operations.
- Dashboards & Database Automation Created customized dashboards for multiple partners and internal teams, addressing their unique business needs. Simultaneously, implemented automation solutions to optimize workflows using Apache Airflow and minimize manual tasks. Furthermore, developed data pipelines to seamlessly integrate disparate data sources, enriching the dashboards with greater detail and granularity.

SKILL-SETS



PUBLICATIONS

SOLARILLION FOUNDATION (SF)

Research Assistant + Teaching Assistant

- A Two-Stage Machine Learning Approach to Forecast the Lifetime of Movies in a Multiplex - Published at Future of Information and Communication Conference (FICC) 2020, San Francisco, USA. [LINK]
- User-Independent Human Stress
 Detection Published at IEEE Intelligent

 Systems IS'20 Varna, Bulgaria, August
 2020. [LINK]

EDUCATION

M.E Mechatronics

Anna University (M.I.T Campus)

2018-2020

♀ Chennai

CERTIFICATION

 Red Hat Certified Specialist in OpenShift Administration[LINK]