

JANA PALANISAMY

+1 (408) 657-0104 | <https://www.linkedin.com/in/janaarthana-harri-1754a2205/> | janahari23@outlook.com |
<https://janaarthanaharri.github.io/v2/> | <https://github.com/JanaarthanaHarri> |

4881 Lago Vista Circle, San Jose, CA 95129

EDUCATION

Master of Science in Software Engineering, Sp. Data Science and Networking Software Jan 2021 - Present
San Jose State University, San Jose, CA, USA.
Bachelor of Technology in Software Engineering Aug 2015 - May 2019
SRM Institute of Science and Technology, Chennai, India.

TECHNICAL SKILLS

Languages/Software: Python, JAVA, C, C++, HTML, CSS, JavaScript, R, MATLAB, SAS
Library/Frameworks: Scikit-Learn, Pandas, Numpy, Matplotlib, Seaborn, TensorFlow, AutoML, Keras, Flask, Pygame
Databases and Tools: MySQL, PostgreSQL, MongoDB, Hadoop, Hive, Spark, Kafka
Software/Cloud: AWS, IBM Watson Studio, Azure ML Studio, Amazon Sagemaker, Heroku, Docker, Git, Tableau, Linux, RASA
Analytical Skills: Regression Analysis, Classification, Clustering, Machine Learning, Deep Learning, Decision Trees, NLP, Time Series, Sports Analytics, Big Data, ETL, ML DevOps, CI/CD, Data Warehouse, AI

EXPERIENCE

Software Developer Intern | TekAfforde Solutions Pvt.Ltd, Bangalore, India Sep 2019 - Apr 2020

- Developed a cloud-based solution to manage Accounts Receivable, and Accounts Payable (View) and delivered various reports.
- Contributed significantly to developing various automated solutions for BMPN based workflow Engines and UI Frameworks.
- Tools and Technologies used:** C++, JAVA, JavaScript, Play Framework, PostgreSQL, Microsoft Excel.

PROJECTS

PowerCo Churn Analysis | Python, Pandas, XGBoost, SHAP, AWS EMR Dec 2021 - Jan 2022

- Explored more than 3GB of CRM data and built machine learning pipelines to accurately predict customer churn by 75% and deployed the model on AWS EMR.
- Conducted discount-impact analysis to develop optimal discount strategy, achieved a result that would increase the annual revenue by \$41K.

Customer Segmentation Analysis | Python, SQL, Pandas, Plotly, RFM, LTV, Tableau, AWS Jan 2022 - Feb 2022

- Cleaned more than 30K customer and retail purchases records, conducted an assessment of data quality and completeness in preparation for analysis. Implemented cohort analysis, customer segmentation using RFM and calculated LTV, used unsupervised classification (K-Means) to segment customers.
- Build up dashboards in Tableau Desktop using data course in AWS Redshift, managed Tableau reports on Tableau Server.

ACADEMIC PROJECTS

FundGalaxy | Python, NLP, JavaScript, CSS, MongoDB, Heroku, AWS, Postman Fall 2021

- Built a smart search recommendation system that can streamline the process of finding and recommending top n potential investments or investors and deployed it on Heroku via REST API. Set up MongoDB clusters using Crunchbase API.

Virtual Assistant (Foodbot) | Python, NLU, RASA, SQLite3, Docker Fall 2021

- Developed a responsive AI-powered chatbot using RASA to handle customer queries regarding food order takeaways. Integrated SQLite3 with Python to store and query customer and restaurant data.
- Spun docker server to add duckling to bot's NLU pipeline to extract entities and parse customer texts to structured data.

Store Sales - Time Series Forecasting | Python, Time Series, Kaggle Fall 2021

- Collaborated with a team of four and built a model to forecast store sales on data from Corporación Favorita.
- Implemented a custom regressor using Ridge and Random Forest models to achieve a competitive RMSLE score of 0.42.

NBA Game Winner and Stats Predictor | Python, Pandas, XGBoost, Decision Trees, Sports Analytics Spring 2021

- Accomplished training classifiers on binary target data for predicting the winners of NBA games and binary statistic results.
- Built a model using XGBoost combining with SMOTEEN and tuned hyperparameters to achieve the highest accuracy of 74% with 14.1% macro average gain among all other models.

AWARDS, HONORS & INVOLVEMENT

Academics: Machine Learning competition 3rd place - For predicting cardiovascular disease with an accuracy of 0.80(SJSU).
Extracurriculars: BCG | Walmart Global | KPMG | JPMorgan Chase - Virtual Experience Program Participant (2022).
Sports: Member of San Jose State University Badminton Team (Fall 2021 - Present).
Represented the state of Tamil Nadu, India in Soccer Nationals organized by the Football 7 Association of India.
Led division 2 senior soccer club affiliated with Chennai Football Association in district leagues and secured promotion to division 1 (2018) (Chennai, India).