

# JANA PALANISAMY

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[janaarthanaharri.github.io](http://janaarthanaharri.github.io)

## TECHNICAL SKILLS

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**Languages/Software:** Python, C++, C, JAVA, JavaScript, HTML, CSS.

**Libraries/Frameworks:** Scikit-Learn, Pandas, Numpy, Keras, Matplotlib, Seaborn, TensorFlow, RASA.

**Databases and Tools:** MySQL, MongoDB, PostgreSQL, Kafka, Anaconda.

**Software/Cloud:** AWS, GCP, Git, Heroku, Docker, Amazon Sagemaker, Google Colab.

**Analytical Skills:** Regression Analysis, Classification, Clustering, Machine Learning, Decision Trees, Natural Language Processing, Time Series, ETL, ML DevOps, AI, Data Warehouse.

## EDUCATION

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**Master of Science in Software Engineering**, Specializing in Data Science

*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, Kancheepuram*

## EXPERIENCE

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**Software Developer (Intern) | Tekafforde, Bangalore, India**

*Sep 2019 - Apr 2020*

- Developed Accounts Receivable and Accounts Payable (View) using JAVA, JavaScript, HTML and Play Framework. Worked with various automated solutions such as BPMN based workflow Engine and UI Frameworks. Designed SQL views and handled complex DB operations.

## PROJECTS

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**PowerCo Churn Analysis (BCG GAMMA - Virtual Internship)**

- Understood the business, framed the business problems, and formulated multiple hypotheses as a data science problem.
- Explored more than 3GB of CRM data and built machine learning pipelines to accurately predict customer churn by 75%.
- Conducted discount-impact analysis to develop optimal discount strategy, increased annual revenue by \$61K.

**FundGalaxy**

- A one-stop solution where various organizations and potential investors can register themselves, fill out the necessary information to easily attract/find and interact with each other.
- Designed a smart search recommendation system that can streamline the process of finding potential investments/investors using CrunchBase API and deployed it on Heroku via REST API.

**Virtual Assistant (Chatbot)**

- Developed a responsive AI-powered chatbot to handle customer queries regarding food order takeaways. Built using conversational AI platform called RASA. Integrated SQLite3 with Python to store and query customer data.

**Store Sales - Time Series Forecasting**

- Built a model using CalenderFourier and DeterministicProcess to forecast store sales on data from Corporación Favorita, a large Ecuadorian-based grocery retailer.
- Implemented a custom regressor using Ridge and Random Forest models to achieve a competitive RMSLE score of 0.42.

## **AWARDS, HONOURS, AND INVOLVEMENT**

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- Ranked among the top 3 in the Machine Learning Competition for cardiovascular disease prediction with an accuracy of 80% - *SJSU, Spring 2021*.
- Represented State of Tamil Nadu in Senior National Soccer Tournament (India) - *2018*.