

# JANA PALANISAMY

janahari23@outlook.com | +1 (408) 657-0104 | San Jose, California | [Linkedin](#) | [GitHub](#)  
[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*

- Worked on a cloud-based web application called Afforde ERP. Developed Accounts Receivable, and Accounts Payable (View) using JAVA, JavaScript, HTML, and Play Framework.
- Experienced various automated solutions such as BPMN based workflow Engines, 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.