

## EDUCATION

### San Jose State University

Aug 2023 – May 2024 | CA, USA

MS in Data Science, Software Engineering Department

Courses: Data Mining, Advanced Data Mining, Enterprise Software Engineering

### Velagapudi Ramakirshna Siddhartha Engineering College

Feb 2013 – Apr 2017 | Vijayawada, India

Bachelor of Technology, Electronics And Communication Engineering, GPA: 8.91/10.00

Courses: Calculus, Probability And Statistics, Operating Systems, Programming in C, Linear Algebra

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer

June 2019 – Dec 2020 | Bangalore, India

Global Edge, Client: **Robert Bosch**

- Automated the usage of **Gcov, Lcov, and CTC tools** to get functional, code, conditional, and decision coverage using **Python** scripting.
- Gained experience working with **ALM ticketing tools** for tracking enhancement and defect stories.
- Practiced **RQM** to manage test results and automated their management using Python.
- Co-ordinated with cross-functional teams for troubleshooting** issues during application deployments in development and production environments.

### Software Engineer

May 2017 – May 2019 | Bangalore, India

Global Edge, Client: **Intel**

- Developed core driver modules of mobile modem** using the **C language** to **optimize operational efficiency**. Implemented unit test cases for timer services modules using the **C and C++ programming languages** and automated target testing for all core driver modules using **Python, Shell, and Batch scripting languages**.
- Enabled HARTS (**HCLLOUD** automation) for all core driver modules and performed nightly test runs. Gained hands-on experience working with GDB and JTAG trace 32 debugging tools to debug issues seen in core drivers and fix them. Used git and bee tools for version control management of code. **Contributed to setting up CI/CD pipelines** using tools like **Jenkins, GitHub, Cmake, and Artifactory**.

## RESEARCH PUBLICATIONS

### Estimation and Correction of Carrier Frequency Offset using FFT and 16-QAM in MIMO-OFDM

March 2017

Implemented an ICI reduction method to reduce the effect of frequency offset to eliminate the need for increasing system complexity.

## SKILLS

Probability and Statistics, SQL, ML(Algorithms), Data Visualization, Exploratory Data Analysis(EDA), Amazon Web Services(AWS), AutoML(Pycaret, AutoEDA, AutoViz, Featurewiz, AutoViml, Jadbio).

**Languages:** Python, SQL, Java, C, C++, MATLAB, Shell scripting, Batch scripting.

## RELEVANT PROJECTS:

### 1. Insurance Premium Prediction System

Sept 2022 — Dec 2022

- The goal of this project to give people an estimate of how much they need based on their individual health situation. This can assist a person in concentrating on the health side of an insurance policy rather than the ineffective part.
- Evaluated the performance(**RMSE & R-squared**) of different models(**Linear Regression, Decision Tree, KNN, Gradient Boosting, XGBoost, Random Forest**).

### 2. Crop Recommendation System

Sept 2022 — Dec 2022

- This project aims to incorporate science in farming. Goal is to recommend optimum crops to be cultivated by farmers based on several parameters and help them make an informed decision before cultivation
- Evaluated the performance(**Accuracy Score, precision, Recall, f1-score**) of different models(**Linear Regression, Decision Tree, Gaussian Naive Bayes, Support Vector Machine, Gradient Boosting, XGBoost, Random Forest**).

## AWARDS

**2019** Achieved the **Young Talent Award** for my outstanding performance at the client location (**Intel**) from the Head of the Domain in Global Edge.

**2018** Received the **Young Turk Award** from the Manager for my diligent work in **XMM8660 5-G project**.