

## EDUCATION:

### **Master of Science, Computer Science| Data Science Specialization**

San Jose State University, CA, USA

**Related Coursework:** Data Mining, System Software Engineering, Large Scale Analytics, Natural Language Processing

**PA:3.90**

*Expected (May 2021)*

### **Master of Business Administration**

Loyola Institute of Business Administration, TN, India

**GPA:3.70**

*March 2017*

### **Bachelor of Engineering, Computer Science**

RMK Engineering College, TN, India

**GPA:3.71**

*April 2014*

**Related Coursework:** Data Structures, Objected Oriented Programming, Web Technology

## TECHNICAL SKILLS:

**Programming languages & Databases:** Python, Java, C/C++, SQL, MYSQL

**Frameworks & Libraries:** Flask, Numpy, Pandas, Scikit-Learn, NLTK(Natural Language Toolkit), Matplotlib, Seaborn, Spark SQL, PySpark

**Tools:** Tableau, Qlik Sense, PowerBI, Alteryx, Ms-Excel, Ms-Office, Eclipse IDE, Spyder, Jupyter, Git

**Others:** Machine Learning, Natural Language Processing, Data Structures, Statistics, Agile, Scrum

## ACADEMIC PROJECTS:

### **Real Time Stock Market Recommender Model:**

*January 2020 – May 2020*

- Built a real time stock recommender using Apache Spark framework. Used Spark Streaming Services to stream live data about markets using local TCP/IP port and captured the sentiments using Spark Mlib sentimental analysis framework.
- Applied machine learning algorithms like ARIMA, Recurrent Neural Networks etc on this data combined with historical prices to forecast the real time stock prices.
- Deployed the machine learning model using Python Flask and designed a UI using ReactJS, NodeJS, CSS.

### **News Classifier:**

*August 2019-December 2019*

- Programmed a news crawler in Python to extract structured information from news websites.
- Engineered a Machine Learning based classifier to classify extracted news article into related genres.
- Applied several pre-processing & word embedding techniques like parts of speech tagger, tokenization, lemmatization, TF-IDF, bag of words etc and tried out several algorithms: SVM, Logistic Regression, Naïve Bayes, KNN. Languages: Flask and Python.

### **Job Recommendation Engine:**

*August 2019-December 2019*

- Created a job application and management UI using ReactJS, NodeJS, CSS.
- Designed and Implemented REST API's to perform CRUD operations on database.
- Designed a User Based Collaborative Filtering to recommend jobs to users based on similar user profiles and deployed the model in Python Flask. Languages: *Python, Flask, CSS, NodeJS, ReactJS.*

### **Drawscillate Game:**

*August 2019-December 2019*

- Developed an interactive audio-visual game in Processing. It is an adaption of buzz-wire game.
- Added a CI/CD pipeline with spotbugs & smartsmells to provide us insights into our code's quality during development.
- Incorporated various design patters: Singleton, Factory, Memento, Command, State using Java and Processing libraries.

## WORK EXPERIENCE:

### **Data Analyst, Lennox India Technology Centre**

*May 2017-November 2018*

- Analysed business goals & processes, constructed data models, analysed data and presented valuable recommendations on business problems to business partners and key stakeholders.
- Assessed and worked with multiple systems & merged data from multiple data sets, including field input and management assumptions, to design clear reporting to be communicated across a variety of audiences.
- Converted business problems into analytical problems and worked across multiple analytical platforms.

### **Key Projects:**

#### **Supply Planning Analytics:**

- Improved operational efficiency and effectiveness by enabling data-driven decisions at strategic, operational levels.
- Centralized data from across sources (SAP, BW, etc.) into integrated visualizations, to quickly recognize irregularities that lead to out-of-stocks. Used SQL and Alteryx for cleansing and data mining and Tableau and Qlik Sense for visualization.
- Automated ETL process on data making it easier to wrangle the data and reducing the processing time by 75%.
- Conserved close to \$10,000/year for the company based on HR and TPM calculation.

#### **Manufacturing Analytics:**

- Built aggregated dashboards employing centralized data from various areas: safety, quality, finance, machine utilization etc., to give a holistic view and quickly identify areas of improvements. Extensively worked on SQL and Alteryx.

#### **Warranty Analytics:**

- Enhanced and programmed a methodology that uses a multi-step process resulting in projections of accruals. Removed manual touch points. Implementation in Databricks using Python Spark, Spark SQL and Power BI for visualization.

#### **Software Engineer, Athenahealth**

*June 2014-May 2015*

- Analysed, devised and administered testing procedures, programming and documentation in Java.
- Created and managed an automated workflow with Selenium. Conducted internal training programs on various products.

Technology Stack: Java, SQL, Selenium.

#### **INTERNSHIP:**

##### **Data Analyst Intern, Cavinkare**

*April 2016-May 2016*

- Created and used the financial model to come up with the company's valuation. Explored the key business drivers by analysing the financial model and provided a detailed review on the impact that these key business drivers have on business and on the company's valuation. Majorly worked on Ms-Excel and used Tableau for visualization and presenting the findings of the project.
- Identified and valued operating improvement opportunities and whether or not some of its business can be divested.