

EDUCATION

University of California, Irvine, CA Sep 2021- Dec 2022
Master of Computer Science GPA: 3.83 / 4.00

Vellore Institute of Technology (VIT University), Vellore, India Jun 2013- May 2017
Bachelor of Technology in Electronics and Communication Engineering GPA: 3.85 / 4.00

TECHNICAL SKILLS

Programming Languages - C, Java, C++, Python, SQL, HTML/CSS, Shell Scripting, WPF
Frameworks and tools - Spring Boot, Angular 8, hive, Apache Spark, Putty, PySpark, MSC Apex, AWS, Git, Node.Js

WORK EXPERIENCE

Hexagon Manufacturing Intelligence, Inc., (Software Development Intern) C++, WPF, Python Jun 2022- Sep 2022

- Developed **Bounding Box Tool** using Apex scripting API, Python and VTK modules for the Custom tool's palette of MSC Apex software to create a box that completely encloses a model within a minimum volume.
- Created a test script to test the tool for multibody, single body and sheet metal parts.
- Developed **DXF-Reader Tool** using ezdxf module in Python, which enables to import any file of DXF format through a GUI tool and translates into the **MSC Apex** software.

ABM Web Solutions Pvt Ltd, (Software Engineer) Java, Spring Boot, Angular8 Jun 2019 - Aug 2021

- Worked as a part of a team that assists in determining the secured loan that can be granted to a customer based on the collateral placed on the mortgage. **Java, Spring Boot**, and **Spark** are the primary tech stacks employed in this project.
- Enabled parallel processing of API calls, lowering MariaDB's overhead.
- Rearchitected the application that allows users to upload excel files into **MariaDB** using **Angular 8** as part of the project's requirements to **reduce the turnaround time by 50%**.

Tata Consultancy Services, (Software Engineer) Java, MySQL, HCL Commerce Oct 2017 - Mar 2019

- Handled server-side operations of Marks and Spenser's E-commerce website serving over **10M requests daily** and extracted customer data to analyse and identify key metrics; Developed dashboards and business reports using **Splunk and Grafana**.
- Managed all aspects of job creation and scheduling through the **HCL Commerce tool** (WCS) and decreased project delivery time by utilizing dashboards, leading to early streamlined delivery of projects.
- Resolved user tickets through root cause analysis and provided technical solutions.
- Liaised between client and technical /functional teams to ensure **penalty-based SLAs are 100% achieved**.

ACADEMIC PROJECTS

The Phisher [Video]- Python, Flask, Scikit learn

- Delivered a model using random forest and SVM algorithms for evaluating the incoming emails and classifies as safe or malicious with an **accuracy of 96%**.
- Created a custom dataset by collecting malicious emails by crowd sourcing of data which helps to retrain the model by itself for better accuracy. The application dashboard is hosted on **Heroku cloud platform**.

Multilingual Opinion Miner- Python, NLTK, Keras API, Matplotlib

- Developed an application to extract the sentimental meaning of a social feed by fetching data based on the input parameters like keyword, location, language, and social media platform and achieved an absolute **accuracy of 98%**.
- Implemented a learning-based approach using **Convolution Neural Network (CNN)** on the Sentiment140 corpus for the classification of feed.
- Created a GUI to get infographics of the polarity and frequency of posts based on the user's input.

VIT-Robocon

- Formulated dynamic programming algorithm in to navigate robot in 5 directions to decrease task time by **1.16%**
- Minimized error in trajectory of a projectile using Mean Shift Clustering to detect hit with confidence map in **C++**

LEADERSHIP AND ACCOLADES

Leadership: Board Member & Leader of IEEE-MTTS (Microwave theory and techniques), a VIT Student chapter with more than **300 members**.

Research: Safety helmet with alcohol detection and theft control for bikers [Paper ID: [10.1109/ISS1.2017.8389255](#)].

Certification- Executive Certificate Program in Data Science and Machine Learning in R & Python- IIM, Raipur.