

EDUCATION**University of California**, Irvine, CA

Sep 2021- Dec 2022

Master of Computer Science *GPA: 3.74 / 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***WORK EXPERIENCE****Natera Inc, (Software Engineer)** *Java, Spring Boot, Gitlab, AWS, DNA Nexus*

Apr 2023 – Present

- Designed and implemented a new self-help tool using **Java** within the LIMS portal to streamline bulk updates of patient samples. Reducing manual data entry by 60% and enhancing data accuracy and operational efficiency.
- Developed custom scripts to monitor pending patient samples. Integrated these scripts with Slack, Jira and PagerDuty to automate alerts, create Jira tickets and trigger Pager duty notifications at different thresholds. This helped streamline the processes and heavily reduced the response time.
- Investigated and resolved a critical defect in the LIMS portal where reports were not being retrieved from the DNA Nexus Cloud. Enhanced system reliability by ensuring the immediate availability of reports.
- Proactively resolved 100+ user tickets by conducting thorough root cause analysis and implementing effective technical solutions, resulting in a 40% improvement in resolution time and customer satisfaction.

Hexagon Manufacturing Intelligence, Inc., (Software Development Intern) *Python, VTK, Pytest* 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.
- Developed **DXF-Reader Tool** using Ezdxf module in Python, which enables to import of any file of DXF format through a GUI tool and translates into the **MSC Apex** software.

ABM Web Solutions Pvt Ltd, (Software Engineer) *Java, React.js, GIT*

Jun 2019 - Aug 2021

- Designed scalable, maintainable, and easy-to-use REST APIs using **Java** and **Spring Boot** and deployed them in the **Pivotal Cloud Foundry (PCF)** to help contribute to determining the Collateral Risk for potential clients.
- Re-architected an application to map data from Excel to databases by building an UI using React.js, enabling users to upload Excel files and map data to corresponding database tables. Managed to reduce turnaround time from 35mins to 8mins, with new architecture.

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.
- Managed all aspects of Cron 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.

ACADEMIC PROJECTS**The Phisher [Video]-** *Python, Flask, Scikit learn*

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

TECHNICAL SKILLS AND ACCOLADES**Programming Languages** - Java, Python, C++, C, SQL, HTML/CSS, JavaScript, Shell Scripting, React.js**Frameworks and tools** - Spring Boot, Angular 8, Jenkins, Apache Spark, Putty, Spark, MSC Apex, AWS, Git, Node.js**Certification-** Executive Certificate Program in Data Science and Machine Learning in R & Python- IIM, Raipur.**Research and Publication** - Published paper in IEEE: "Safety helmet with alcohol detection and theft control for bikers" in the **IEEE- 2017 International Conference on Intelligent Sustainable Systems (ICISS)**. This paper presents the design of a smart helmet integrated with an alcohol sensor to ensure the driver is sober and implements rider authentication using face recognition to control theft. Link: <https://ieeexplore.ieee.org/document/8389255>