

# Lakshmi Sabari Priya Jaini

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## EDUCATION

### New York University

Sep. 2022 - May 2024

*Master of Science in Computer Science | GPA - 3.76/4*

### Vellore Institute of Technology

Jun. 2016 - May 2020

*Bachelor of Technology in Information Technology | GPA - 9/10*

## EXPERIENCE

### Software Developer Intern

Jun. 2023 - Aug. 2023

*Interactive Brokers, Greenwich, CT | Project – Portfolio Analyst Dashboard*

- Developed a new widget within the Portfolio Analyst web page to display Greek variables, including Delta, Gamma, Theta, and Vega, using Java and REST API services.
- Contributed to developing dedicated sections in PDF and CSV reports to showcase Greek risk measures, enhancing the overall usability and comprehensiveness of the reports.

### Software Engineer

Sep. 2020 - Jun. 2022

*Shell India Markets, Bangalore | Project – US TABS Demand Allocation and Management*

- Developed a Perl script to orchestrate the data flow between 3 systems to streamline the entire interface.
- Crafted an automation solution to counter the manual task of data collection and processing for 210 terminals for project cut-over day with a python script and saved 45 days of manual effort.
- Analyzed requirements, performed system integration testing using Selenium C# and reported defects for a business-critical demand allocation system for 210 terminals and achieved 100% Defect Removal Efficiency.

### Software Engineering Intern

May 2019 - Jun. 2019

*Hitachi Consulting, Hyderabad | Project – Web usage mining with Apache log data*

- Pre-processed 30,000+ Apache Log entries, performed log path analysis to analyze and review frequent access patterns using Python pymining
- Built a minimal web app using python Django framework to visualize the patterns extracted from the mining.

## SKILLS

**Languages:** Java, Python, C++, JavaScript, C#, Perl, R, SQL

**Web Development and Databases:** Flask, Django, AngularJS, MongoDB, MySQL, PostgreSQL

**Data Analysis and Big Data:** RapidMiner, Tableau, Power BI, Hadoop, Spark, Pytorch, Tensorflow

**Other:** Git, GitHub, Docker, Kubernetes, OpenShift, Swagger OpenAPI, Selenium, UFT

## PROJECTS

### E-commerce Shopcarts Microservice | *Python, Flask, Swagger OpenAPI, Docker, Kubernetes, Github*

- Developed a Python-based E-commerce Shopcarts Microservice with Flask, Swagger API documentation, and Docker containerization, achieving 95% test coverage.
- Managed Kubernetes and OpenShift CD deployments, showcasing expertise in microservices and CI/CD practices within an Agile team

### Symptom Based Disease Prediction | *Python, Flask, MongoDB, Tensorflow, Keras*

- Implemented PCA, SVM, Artificial Neural Network, Decision Tree, and Multinomial Naïve Bayes on a real time dataset and achieved the highest accuracy of 95% using decision tree model.
- Built a dynamic web application using the decision tree model to predict diseases based on symptoms and recommend nearby doctors of required specialisation.

### Occupation-based Predictive Model for Cardiovascular Health Status | *Python, keras, tensorflow, sdv, matplotlib*

- Analyzed National Health Interview Survey data from 2015 to 2021, encompassing a comprehensive study on the association between employment attributes and Cardiovascular Disease (CVD) risk.
- Implemented various ML models to predict CVD based on occupation and medical data, effectively addressing imbalanced classes through techniques like GANs, undersampling, weighted loss, achieving a best accuracy of 93%.

## ACHIEVEMENTS

**Google CS Research Mentorship Program Scholar** - Matched with a Google mentor for guidance in CS research

**Five-Star Honors from Shell India Markets** - Received by Project Manager for Significant Contribution