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, Tensorlow, 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*