Goutham Saravanan

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EDUCATION

Master's in Computer Engineering | GPA : 3.93 12/2022
Northeastern University, Boston
Concentration : Computer Vision, Machine Learning and Algorithms

Bachelor's in Computer Engineering | GPA : 3.83 04/2021
VIT University, India

SKILLS

Programming Languages: Python | C# | Java | JavaScript | PyScript | HTML | CSS | SQL | R
Webskills: MongoDB | MySQL | Apache | Flask | ReactJS | Hadoop | Node.Js | JSON | AJAX | jQuery | REST API | MERN | Bootstrap
Libraries/ Frameworks: Pandas, Numpy, ski learn, Keras, Tensorflow, Pytorch, Springboot, GUI development, .NET.
Others: Docker, Kubernetes, UNIX, Agile SDLC, Networking, CAN, Modbus, AWS, Jenkins, and Cloudwatch.

EXPERIENCE

Software Engineer (LifeSciences) 06/2022 – 12/2022
Festo Corporation, Boston
- Developed sensors WebApp. for sales engineer demonstration hosted through Flask based on ReactJS.
- Designed Desktop Application (cross-platform) for pipette operation using .NET v6 on C# that operates through PLC.
- Authored python automation(back-end) designed to move the gantry based on user selection and integrate pipette functions.
- Automated excel spreadsheets of (100k+) scale measurements to visualize the numbers and plot them according to the CV range.
- Maintenance and Debugging of RTOS code written in C for pipette operations. (Liquid Handling System) - unit testing.

Software Engineer 04/2020 – 10/2020
Latlon Technologies, India
- Developed, and managed the reliability of a diverse range of critical infrastructure systems, services, tools, and automation that provided the foundation for a SaaS platform that has over 10M users annually.
- Created automated alerts around infrastructure issues leading to an improvement in response time to critical errors by 91%.
- Conceived and deployed automated reports regarding the performance of the web saving 48 hours of manual reporting.

Data Analyst Intern 05/2019 – 09/2019
FinMomenta, India
- Assisted senior analyst in designing UML models using PowerDesigner based on public income data.
- Implemented Logistic Regression in Apache Spark to predict credit score(CIBIL); obtained accuracy of about 86%.
- Formatted records through OpenRefine retrieved from bureaus for normalization and produced reports using PowerBI.
- Reported data problems, completed thorough weekly reports, and actively participated in manager-led team meetings.

PROJECTS

WikiMuTo: Multilingual Topic Classification 04/2022
- Generated dataset by scraping Wikipedia using its own API for Albanian and English Languages.
- Baseline dataset generated by translating languages from one to another using google-trans API.
- Achieved 87% accuracy for category classification with pre-trained XLM-RoBERTa.

Climate Search Application 12/2021
- Application to display weather information for next 10 days by locating user location using ipinfo.io API.
- Lets user search for weather of particular location and store it.
- Website's technology stack is Angular(Material) for Front-end and Node.Js(Express) for back-end and hosted with AWS.

Amazon.com Clone Website 09/2021
- Cloned e-commerce platform using technologies - React, Node.js, and Express for the development of the project.
- Designed and implemented a database to store and retrieve data efficiently.
- Implemented user authentication and authorization to secure the application.
- Integrated a payment gateway for user purchases, and designed the user interface for a user-friendly experience.

Spam Filter 02/2021
- Fostered Random Forest classification model to distinguish spam and non-spam email with accuracy of 96.03%
- Compared classification models Naive Bayes(Gaussian), Decision Tree, SVM, Random Forest, Bagging and K Nearest Neighbors to determine Random Forest as best performing model evaluated by K-fold cross validation.

Energy System and reasoning consumption by predictive analysis 06/2019
Undergrad - Final Year Project, VIT
- Designed Smart Power Meter using k-means clustering to analyze the electricity consumption of each device.
- Attained 83% accuracy for device categorization through the K-Nearest Neighbour algorithm to assign consumption values for each device and send values to the server for future reference using MySQL.