SRIHARSHITHA ANUGANTI

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EDUCATION

Masters in Data Science
College Of Science and Engineering, University Of Minnesota, Twin cities. Jan '21-Present

Bachelor of Engineering (B.E) in Electronics and Communication Engineering (ECE)
Vasavi College Of Engineering, Hyderabad. May '18

WORK EXPERIENCE

NCR CORPORATION INDIA PVT.LTD

SW ENGINEER I May '19 - Nov '20

- Migrated 6 microservices from on-premise to cloud.
- Dockerized 6 microservices and also has created continuous integration and deployment pipelines for them.
- Developed pipelines for automated infrastructure and application deployments on Microsoft Azure cloud.
- Created auto-scalable environments with both light-weight(using kubernetes) and heavy-weight(using Azure VM scale-sets) on Cloud which increased environment uptime by 30%.
- Integrated applications with cloud monitoring and incident-management tools to ensure 24*7 uptime for services on cloud.
- led a team of 7, which is responsible for production deployments for about four months.

SW ENGINEER ASSOCIATE II July '18 - April '19

- Created Python scripts for automating pre-requisites and microservices' deployment on VMs.
- Developed Installer automation testing scripts for the Certification team which has reduced the testing time by 60%.

TECHNICAL SKILLS

Languages: Python, R(Beginner), C, C++, SQL.
Data Science Libs and Tech stack: Tableau(Beginner), Matplotlib, Seaborn, Numpy, Pandas, Scikit-learn, ApacheSpark(Beginner), Tensorflow, OpenCV, MySql, SQLite, Jupyter Notebooks, NLTK.
DevOps stack : Microsoft Azure, Docker, Kubernetes, ARM templates, Azure DevOps, Site24*7, Harness, ELK, EFK, Helm, Chef, Chef Habitat, Jenkins, Bitbucket, Pagerduty.
Operating Systems: Windows, Linux (Centos), MacOs.

NOTABLE PROJECTS

An RDBMS modeling for analyzing trends in Covid19 Cases and Vaccinations

- An RDBMS model is created to analyze the trends in Covid19 cases and vaccinations.
- Correlation between the daily cases data and the vaccination trends in the USA is analyzed.
- The tools considered for this project are Google collab and SQLite.

A Distributed System for ImageProcessing

- The framework will receive jobs for image processing from the client, split the jobs and assign them to multiple compute nodes.
- The framework uses a *probability-based load balancing algorithm* for scheduling, to assign tasks to compute nodes.
- All the communications involved are synchronous RPC.
- Apache Thrift is used for the interfaces.

Stroke Prediction Model

- The model predicts if a patient is susceptible to getting a stroke using different classification algorithms like Logistic Regression, Support Vector Machine, and Random Forest.
- Python libraries were used to visualize and pre-process the data.
- The highest accuracy achieved is 89% using Random Forest Algorithm.

ASL Detection on Live video(In-progress)

- This model will detect the sign language on live video and print it on the screen.
- WLASL, the largest ASL dataset containing about 21k videos is taken.
- We are planning to use YOLOv3 for extracting spatial and temporal features from the videos and we will explore I3D and TGCN algorithms to train the model.

Automatic Text Generator(In-progress)

- The goal of the project is to implement the state-of-the-art text generation models.
- The dataset taken from kaggle.
- The plan is to use NLP techniques and NLTK library to preprocess the text and use GPT-2 to build the model.

Voice based remote vehicle control through mobile using Arduino and Bluetooth module.

- This project enables you to move a remote vehicle like a wheelchair, solely based on the voice command given from our mobile application.
- We have used 2 server motors integrated to Raspberry Pi 4 and HC-05 bluetooth module.
- Python has been used for programming the Raspberry Pi 4 board.

COURSES TAKEN:

- Introduction to Data Mining, Principles of Database Systems, Machine Learning Fundamentals, Theory of Statistics, Applied Regression Analysis.
- Tableau Fundamentals(Tableau e-learning)
- Optimization and Simulation for Decision Making (Teaching Assistant).
- Computer Vision, Distributed Systems, Natural Language Processing (courses enrolled in Spring 2022).
- Introduction to Machine Learning in Production(Coursera, In-progress), Big Data with Apache Spark(Udemy, In-progress).

ACHIEVEMENTS:

- led a team which stood 3th among 20 teams from all over the city in an IOT hackathon conducted by CISCO.
- Was a part of a team in a hackathon at the workplace which got a special mention.
- Co-founded our department's technical magazine, 'NEWTONS APPLE'.
- Organized several successful robotic events, as a part of IETE Student Forum (ISF) which has a student turn-over of about 5000.