Shashank Sai Burri
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Education

San Jose State University, San Jose, California August 2022 - Present
Master of Science in Computer Engineering GPA :3.50/4.00
Institute of Aeronautical Engineering, Hyderabad, India August 2017 – July 2021
Bachelor of Technology in Electronics and Communications Engineering GPA: 3.70/4.00

Experience

Software Development Engineer, Tata Consultancy Services, Hyderabad, In June 2021 - July 2022

- Designed and developed a web application for a fintech company which monitors the daily user-activity of its employees who use a variety of banking tools to carry out their work and maintained the stats of individual users in Database. Implemented effective ways to pull the data from mongo DB and design a stable backend application.
- Used Spring Boot Framework and Java with Mongo DB for the backend of the application which outputs the stats, its used for graphical representation.
- Developed custom application prototypes, jQuery plugins and integrated applications on server side.
- Worked on Jenkins and JIRA for project deployment, defect management, test reporting and other functions.
  Technologies Used :**Python, Java, Spring Boot, Flask, MongoDB .**

Skills

Programming Languages: Java, Python, C++, Javascript.
Frameworks : Spring boot, Spring MVC, Hibernate
Databases : MongoDB ,MySql, SQL, Oracle.
Expertise : Data Structures & Algorithms, Computer-vision, Machine Learning, NLP and Big Data.
Tools : Github, Docker, Kubernetes, Bitbucket , Jenkins, Linux .

Projects

GROCERY STORE MANAGEMENT : Feb 2022- Mar 2022

- Built grocery store management system using HTML, CSS, JavaScript and Bootstrap as a frontend, Python as backend, MySQL as a database and Github as a version control system to maintain the codebase
- Implemented a Python backend with Flask, reducing server response time by 15% and efficiently handling HTTP requests from the frontend.
- Integrated MySQL and utilized SQL Alchemy, resulting in a 25% reduction in query execution time and improved overall database performance.

DOG BREED CLASSIFIER: Nov 2022- Dec 2022

- Developed an algorithm capable of identifying both human and dog images, incorporating a CNN architecture to classify dog breeds among 133 different categories. Achieved a classification accuracy of approximately 4%, and successfully predicted the closest dog breed corresponding to a provided human face.
- Utilized Transfer Learning to tune the architecture with preloaded weights of VGG-19 model (pre-trained on ImageNet(dataset) and achieved accuracy of about 70%.

BRAIN TUMOUR DETECTION USING CNNS: Sep 2020 - Nov 2020

- Worked on Brain Tumor segmentation which is one of the most critical tasks in the terrain of medical image processingthis helped in reducing human prone errors, the robust algorithm extracts brain tumor from the MRI scans provided.
- Convolutional Neural Network which is implemented using Keras and Tensorflow using transfer learning and VGG16CNN'S yielded a better performance where it gained an accuracy of about 95%.

ACHIEVEMENTS

- During my undergrad lead my team to success in technical hackathon governed by JNTUH