DARSH YOGESHBHAI PATEL

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EDUCATION

MS, Software Engineering Graduation:- May 2025
Arizona State University, Tempe, AZ 3.78/4.00 GPA
Relevant coursework: Advanced Data Structures and Algorithms, Software Agility, Mobile Systems

Bachelors, Computers Science and Engineering Graduation:- May 2023
Indian Institute of Information Technology, India 3.57/4.00 GPA
Relevant coursework: Natural Language Processing, Artificial Intelligence, Cloud Computing

TECHNICAL SKILLS

Development: HTML, Cascading Style Sheets (CSS), React.js, Node.js, AngularJS, back-end, front-end, full-stack, Git, Github, Agile Methodologies, Postman, Linux, Amazon Web Services (AWS), firebase, MySQL, MatLab, Selenium, ArchiMate, Blockchain, Solidity, Smart Contracts, Truffle, Internet of things (IOT), Arduino, Raspberry Pi.
Languages: C (Programming Language), C++, Java, Python (Programming Language), JavaScript, SQL, XML.
Data Analytics: Data Analytics, Data Visualization, Machine Learning, Deep Learning, LSTM, OpenCV, TensorFlow, PyTorch, Keras, Numpy, Pandas
Certifications: Nvidia Deep Learning Certificate

EXPERIENCE

RoundTech Square, San Francisco: Software Development Intern Jan 2023 - Jun 2023

- Implemented Tech Stack: **HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS, MongoDB, Php, XML, Postman, Git, Github.**
- Developed Full Stack web applications.
- Developed Applications on various JavaScript frameworks: React.js, Express.js, Node.js also used MongoDB for database.
- Developed responsive web applications as per software requirements specification (SRS).
- Conducted unit testing, API testing (Postman), and acceptance testing.
- Performed static code analysis.
- Implemented Selenium to conduct automated testing.
- Applied Agile Methodologies and participated in SCRUM ceremonies

Garage Works, Pune, India: Machine Learning Intern Aug 2022 - Dec 2022

- Implemented Tech Stack: **Python, Tensorflow, CNN, Mask R-CNN, OCR, AWS, Flask, OpenCV, NumPy, Pandas, Pytorch.**
- Built Deep Learning Model to detect objects using the Tensorflow library.
- Created CNN and Mask R-CNN Models for detecting complex objects within images.
- Experimented with Image classification, Object detection and Image Segmentation to improve results.
- Improved the prediction results by 14 percent.
- Experimented with other models and libraries to improve performance, for eg: Pytorch.
- Implemented OpenCV for image processing, and used AWS and flask to deploy the model on application.

IIIT, Vadodara, India: Data Analytics Research Intern Mar 2022 - Jun 2022

- Collaborated with Curtin University, Australia, and engineered a model that would identify the signature strategy of a football team using the historical data and then build a time-series model that would predict the strategy of a football team in a live game and eventually predict the outcome of the match using the team's historical data. Tech stack: **Data Cleaning; Data Preprocessing, Data Analytics, Gramian Angular Field (GAF) ; Convoluted LSTM; Image classification model.**

ACADEMIC PROJECTS

Agile Metrics Visualization Tool

- Our ongoing project, an analytics tool, measures agile metrics for projects following agile and lean methodologies. With a Python backend and JavaScript-based frontend, our five-member team manages it over four months. We adhere rigorously to **agile and lean principles**, conducting **SCRUM Ceremonies**, maintaining a **Kanban board**, and integrating **static code analysis.** Additionally, we conduct regular tests and are developing **microservices** for deployment using **Docker.** In essence, our project represents a robust solution for real-world deployment.

Blind Assistant System

- Spearheaded the development of a cutting-edge application aimed at enhancing the daily experiences of visually impaired individuals by providing real-time awareness of their surroundings through Machine Learning. Engineered a comprehensive system that utilizes a wearable earpiece to audibly relay environmental information, including object detection and distance estimation. Personally crafted the core software infrastructure and machine learning model, leveraging technologies such as TensorFlow and OpenCV. Successfully deployed the solution on a Raspberry Pi platform, integrating seamlessly with Internet of Things (IoT) principles for enhanced accessibility and usability.

OTHER WORK EXPERIENCE

Arizona State University, Tempe, AZ: Graduate Service Assistant Jan 2024 - May 2024

- Grader for SER 416 - Software Enterprise: Project and Process Management