

DARSH YOGESHBHAI PATEL

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EDUCATION

- **Master of Science in Software Engineering at Arizona State University** **GPA: 3.78/4.0 (8/23 - 4/25)**
- Course Work : Advance Data Structures and Algorithms, Foundations of Software Engineering, Semantic Web Engineering, Software Agility, Mobile Systems and Software Paradigm.
- **B.Tech in CSE from Indian Institute of Information Technology Vadodara** **GPA: 3.57/4.0 (8/19 – 5/23)**
- Course Work: Artificial Intelligence, Data Analytics and Visualization, Natural Language Processing, Distributed and Parallel Computing, Digital Graphics and Multimedia, Operating Systems, etc.

WORK EXPERIENCE

- **Software Developer Intern at RoundTech Square (Remote)** **(1/23 – 6/23)**
 1. Worked on building Full Stack web applications.
 2. Worked on various JavaScript frameworks like ReactJS, ExpressJS, NodeJS also used MongoDB for database.
 3. Wrote Clean and Efficient code which is easy to understand and debug.
 4. Developed responsive web apps as per the requirements.
 5. Coordinated with the frontend and backend team to develop the web applications.
 6. Used Agile SDLC Model during the entire process.
 7. Tech Stack Used: HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS, MongoDB, Php, Git, Github.
- **Machine Learning Intern at GarageWorks (Pune, India)** **(8/22 – 12/22)**
 1. Built Deep Learning Model to detect objects using the Tensorflow library.
 2. Created CNN and Mask R-CNN Models for detecting complex objects within images.
 3. Experimented with Image classification, Object detection and Image Segmentation to improve results.
 4. Improved the prediction results by 14%.
 5. Experimented with other models and libraries to improve performance, for eg: Pytorch.
 6. Used OpenCV for image processing, and used AWS and flask to deploy the model on application.
 7. Tech Stack used: Python, Tensorflow, CNN, Mask R-CNN, OCR, AWS, Flask, OpenCV, NumPy, Pandas, Pytorch.
- **Data Analytics Research intern at IIIT Vadodara and Curtin University Australia (Vadodara, India)** **(3/22 – 6/22)**

Worked on building 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) ; Convolutd LSTM; Image classification model.

PROJECT WORK

- **Blind Assistant System** - helping blind people to know more about their surroundings in real-time **using Machine Learning**. Built a system that will tell the blind user what's around them through an earpiece, detect objects using machine learning, and how far they are. Built the primary software and ML model, and deployed it on Raspberry Pi. Tech stack - Machine Learning, Tensor Flow, OpenCV, Raspberry pi, and IOT(Internet of Things).
- **E-Voting system using Blockchain** – Created a decentralized online voting platform. Admin has access to open and close the voting portal and the website was build using MERN stack. Tech stack – Truffle, Ganache, Solidity, Smart Contracts, MongoDB, ReactJs and NodeJs.
- **Damage Detection System for Insurance companies** - Used the previous historical data to analyze, process and train the model to detect damaged parts in road vehicles. Furthermore created an analysis report for the predicted data.
- **Board Game using AI** – Developed an AI game based on the local board game. Heuristic function was built for the AI algorithm. Tech stack – Python, Artificial Intelligence concepts (Heuristic Function), PyGame.

TECHNICAL SKILLS

- Data Analytics, Machine Learning, Deep Learning, LSTM, OpenCV, TensorFlow, PyTorch, Keras, Numpy, Pandas.
- HTML, CSS, JavaScript, ReactJS, NodeJS, back-end, front-end, full-stack, Blockchain, Solidity, Smart Contracts, Truffle.
- C, C++, Java, Python, JavaScript, MySQL, MatLab, Selenium, ArchiMate, CAD, Cisco Packet Tracer, GIT, GitHub.
- Internet of things (IOT), Arduino, Raspberry Pi.
- Leader, out spoken, polite, punctual.

ACHIEVEMENTS

- Solved over **350+ competitive coding questions** on various platforms like Leetcode, Codechef, etc
- **Certified in Deep Learning from Nvidia.**
- **Co-Founder** of Finance Club at IIIT Vadodara.
- Team Leader of the Video Production and Video Editing team at Internet Moguls (International Digital Marketing Company) (May '21 - July '21).