







Amit P Sathyaseelan

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EDUCATION

University Of Michigan, Dearborn

Jan 2023 - Present

Masters in Artificial Intelligence with Specialization in Computer Vision

Current GPA: 3.9/4.0

Courses: Computational Learning, Artificial Intelligence, Natural Language Processing

Vellore Institute Of Technology

Jun 2017 - Jun 2022

Integrated M.Tech in Software Engineering

Current GPA: 9.02/10.0

Courses: Foundations for Data Analytics, Data Warehousing and Data Mining, Soft Computing

SKILLS

Programming Languages: Python, C++, Java, Typescript, SQL, R, HTML/CSS

Databases/ Frameworks: MongoDB, PostgreSQL, OracleSQL, git, NumPy, Angular, Vue, React, Node.js

Machine Learning: TensorFlow, scikit-learn, Keras, numpy, pandas, Tableau, PowerBI, ML/AI Algorithms/Models

Certification: Deep Learning Specialization, Azure Fundamentals

PROJECTS & RESEARCH

ML for Regression, CNN with Polynomial Curve-Fitting, Cross-Validation & Optimization Techniques

- Enhanced predictions by **15%** with **polynomial curve-fitting ML regression**.
- Optimized CNN architectures for **10% accuracy gain** on MNIST data through varied configurations and parameter tuning.

Blind-Aid (Voice-Based Image Recognition System)

- Created a patented mobile app using voice-based image recognition for visually impaired, enhancing daily functionality.
- Trained a **95% accurate Convolutional Neural Network on COCO dataset**, coupled with advanced Dialogflow for natural voice interactions, elevating user accessibility.

IoT-Based COVID De-Escalation System Using BLE

- Created IoT-based COVID de-escalation system using BLE, accurately predicting local cases via real-time Bluetooth tag data collection.
- Utilized **Raspberry Pi and ESP-8266** for data analysis within designated geofence, leading to research paper publication

EXPERIENCE

Teaching Assistantship | University of Michigan, Dearborn

Jan 2022 - May 2023

- Guided **60** students in CIS 436, enhancing around **240** projects in quality and learning outcomes.
- Remedied bugs in **15** projects, ensuring timely assignment completion, and introduced precise grading rubric for consistent evaluation.

Front End Developer Intern | Wipro - Kalajitha IT Solution Llp

Jul 2020 - Jul 2022

- Created and deployed web apps improving financial processes for a multinational corporation.
- Established an approval system, cutting unauthorized spending by **40%**, and integrated reporting feature for data transparency.

Full Stack Developer Intern | I-Consult Management & Outsourcing

May 2019 - Jul 2019

- Created a Django-based Chat Service tool, enhancing customer interaction on websites.
- Seamlessly integrated tool, boosting **customer satisfaction by 30%**, with efficient PostgreSQL database management.

Research & Development Intern | Mindteck India Ltd

Jun 2018 -Jul 2018

- Executed BLE asset tracking testing plan, achieving **95% accuracy** and optimizing triangulation algorithm with CTO to save \$5000 in hardware costs.
- Enhanced system accuracy by 10% through RSSI research and calibration techniques for reliable enclosed asset tracking.