

AMIT P. SATHYASEELAN

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EDUCATION

UNIVERSITY OF MICHIGAN - DEARBORN

July 2022 - Present

Master's in Artificial Intelligence

Coursework: Deep Learning, Artificial Intelligence, Information Visualization & Virtualization

VELLORE INSTITUTE OF TECHNOLOGY

July 2017 - June 2022

Integrated M.Tech in Software Engineering

CGPA 9.02/10

Coursework: Artificial Intelligence, Data Warehousing, and Data Mining, Human-Computer Interaction

SKILLS

Programming Languages: Python, C++, Java, Typescript, SQL, R, Matlab, regex

Platform/Libraries: MongoDB, PostgreSQL, Tableau, git, TensorFlow, NumPy, sklearn, keras, Angular, Vue, React

Hardware: Raspberry Pi, Arduino

PROJECTS & RESEARCH

Project: Blind-Aid (Voice-Based Image Recognition System)

2021

Organization: VIT-AP University

- Engineered a mobile application to help visually impaired people with their daily activities; [currently patent-approved](#).
- Ran a supervised Convolutional Neural Network model, which was trained on COCO Dataset for Image Recognition.
- Implemented Natural Language Understanding Stack (Dialogflow) to help users facilitate interactions with the app through voice commands.

Project: IoT Based COVID De-Escalation System Using BLE

2021

Organization: VIT-AP University

- Built an IoT Device which predicts COVID-19 cases within a certain geographical radius.
- Used Raspberry Pi & ESP-8266 to record Bluetooth tags of users entering the geofence.
- Published a research paper, "[IoT based COVID De-Escalation System using Bluetooth Low Level Energy](#)".

INDUSTRY EXPERIENCE

Project: Capital Expenditure & Capital Requisition Portal

Jul 2021 - Jul 2022

Organization: Wipro - Kalajitha IT Solution Llp | Front End Developer

- Developed two instances of web applications dealing with budgets and investments for an MNC.
- Asset acquisitions and budget approvals underwent predefined levels of approval unique to that department.
- Provided facility to generate reports for further data analysis and auditing purposes.

Project: Customer Satisfaction Opportunity Portal

Jul 2020 - Jul 2021

Organization: Wipro - Kalajitha IT Solution Llp | Front End Developer

- Optimized existing platform that targeted customer feedback and grievances for an MNC.
- Platform required complex forms and several levels of approval within each department for the queries.
- Implemented progressive web application guidelines to make it responsive on different devices.

Project: Chat Service Tool

May 2019 - July 2019

Organization: I-Consult Management & Outsourcing | Full Stack Developer Intern

- Built a Chat Service tool is an internet-based app-like software that can be used by companies to interact with the users that visit their website.
- It can be seamlessly integrated into their website and be accessed by company members who are assigned customers to interact with by the team lead.
- Utilized Django framework for building the application, and PostgreSQL for the database.

Project: Bluetooth Low Energy indoor tracking system

June 2018 - July 2018

Organization: Mindteck India Ltd | Research & Development Intern

- Assisted the CTO in building a BLE-based solution to track assets within an enclosed area.
- Foundation of triangulation was crucial here requiring, at least three Raspberry Pi's for the working of the system.
- Collected and tested RSSI values for every meter to help the system reach its accuracy.