AMIT P. SATHYASEELAN

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY (CGPA 9.02/10 9th Semester)   Amaravathi, Andhra Pradesh
Integrated M.Tech in Software Engineering   July 2017 - June 2022
Coursework: Artificial Intelligence, Data Warehousing and Data Mining, Human-Computer Interaction

NARAYANA PU COLLEGE PU (CGPA 7.8/10)   Bangalore, Karnataka
(Karnataka Board of the Pre-University Education)   June 2015 - May 2017

NARAYANA E-TECHNO SCHOOL (CGPA: 9.6/10)   Bangalore, Karnataka
CBSE (The Central Board of Secondary Education)   May 2015

PROJECTS & RESEARCH

Project: Blind-Aid (Voice-Based Image Recognition System)   Amaravathi, Andhra Pradesh
Organization: VIT-AP University   2021
- Engineered a mobile application to help visually impaired people with their daily activities; currently patent-approved.
- Ran a supervised Convoluted 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   Amaravathi, Andhra Pradesh
Organization: VIT-AP University   2021
- 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](#) on the same.

Project: Web-Scrapper   Amaravathi, Andhra Pradesh
Organization: VIT-AP University   2020
- Built a bot that periodically scrapped stocks along with their prices and number of units held within an ETF.
- Used Cfscrape to make dynamic calls as seen on the ETF site and revised the data stored in the Excel document.
- Client received an excel sheet that assisted with further analysis.

Project: Smartshop   Amaravathi, Andhra Pradesh
Organization: VIT-AP University   2020
- Developed a mobile application for small-scale retail stores
- Aimed at redefining the shopping experience by eliminating the need for physical contact and wait times: users can scan the barcode of any product to purchase. The app has an inbuilt payment gateway to avoid checkout queues saving guests a considerable amount of wait time.

Project: TransIndia   Amaravathi, Andhra Pradesh
Organization: VIT-AP University   2020
- Devised a cross platform application that enables carpooling where items to be transported can be scheduled for pick up along the way.
- Identified various customer groups(drivers and customers) and adjusted product development with firebase authentication within the system.
- Integrated with Google Map API to provide the required information to identify the location of the source to drop and track the shipping

Project: StockEx   Amaravathi, Andhra Pradesh
Organization: VIT-AP University   2019
- Built a predictive stock market analysis tool based on NASDAQ stocks.
- Leveraged candlestick and other statistical tools to display performance of the stock
- Integrated an LSTM model to predict the next day's stock price based on the previous day's performance

Project: Multi-Terrain Vehicle   Amaravathi, Andhra Pradesh
Organization: VIT-AP University, Engineering Clinics   2019
- Assembled a multi-terrain vehicle from the creation of chassis to provide remote control along with features.
- Retrieved GPS coordinates visible in the web app, which was developed by using Google Map API.
- Integrated raspberry pi that was used to facilitate the camera and the GPS modules.
- Used Arduino to connect the motor drivers which powered the vehicle

INDUSTRY EXPERIENCE

Project: Capital Expenditure & Capital Requisition Portal   Bangalore, Karnataka
Organization: Wipro - Kalajitha IT Solution Llp | Front End Developer Jul 2021 - Present
- 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   Bangalore, Karnataka
Organization: Wipro - Kalajitha IT Solution Llp| Front End Developer   Jul 2020 - Jul 2021
- 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   Bangalore, Karnataka
Organization: I-Consult Management & Outsourcing | Full Stack Developer Intern   May 2019 - July 2019
- 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, PostgreSQL for the database.

Project: Bluetooth Low Energy indoor tracking system   Bangalore, Karnataka
Organization: Mindteck India Ltd | Research & Development Intern   June 2018 - July 2018
- 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 one meter to help the system reach its accuracy.

LANGUAGE SKILLS

Language: English, Malayalam, Hindi
IELTS: Overall-7.5 L=8.5, R=8.0, W=6.5, S=7.0

SKILLS & INTERESTS

Technical: C++, Java, Typescript, SQL, MongoDB, R, Matlab, Tableau, git, regex, Python DA/ML (TensorFlow, NumPy, sklearn)
Interests: Motorsports, Badminton, and Korean Dramas
Volunteering:
Volunteered at Spastic Society of Karnataka - interacted with specially-abled children, understanding challenges faced
Founding Member of 'Click 'n' Flick' - Photography Club - Covered various university events.