

# Megha Sri Satya Sai Devineni

Irvine, CA 92617 | mdevinen@uci.edu | (949) 568-7776 | GitHub | Medium | LinkedIn | Stackoverflow | Credly

## EDUCATION

**University of California Irvine** | CGPA: 4.0

09/2023 – 12/2024 [Expected]

Master of Data Science.

**Indian Institute of Technology Madras** | online | CGPA: 3.7

08/2022 – 09/2023

Bachelor of Science in Data Science and Programming.

**Vellore Institute of Technology** | CGPA: 3.6

05/2017 – 06/2021

Bachelor's degree in Computer Science and Engineering with Specialization in Data Analytics.

## SKILLS

Machine Learning | Deep Learning | ReactJS | PySpark | Python | Azure ML | MYSQL | C | C++ | Java | MATLAB | NodeJS | Power BI

## WORK EXPERIENCE

**Shell | Associate Data Scientist** | Bangalore, India | **Tech Stack:** Databricks, PySpark, Python, Azure ML | 07/2022 – 08/2023

- Proactively monitored Data Science pipelines, performed periodic retraining, and model deployment in Azure ML.
- Analyzed multiple training approaches and improved the overall F1 score for various airport/ airline combinations by 60% to 75%.
- Deduced an optimized approach to regenerate the historical forecasts of 2022 and 2023 years that helped to cut down the forecast generation time by 20%. Assisted in migrating the Aviation demand forecasting tool from POC stage to MVP stage.
- Support team lead for Aviation Fuel Forecast and TomoDNN projects.

**Software Engineer** | Bangalore, India | **Tech Stack:** ReactJS, Kotlin, NodeJS, C #, SQL, Azure | 10/2021 – 07/2022

- Developed a ReactJS based station locator feature that helps users to pick, navigate to the nearest Shell fuel station. This feature drove a notable 1.6% increase in the conversion rate of Shell Canada NFR market website.
- Converses with 6 vendors to explain the use cases, formulate questionnaires, and gather relevant analytics from them.
- Presented with the 'Continuous Improvement and Innovation/ Delivering Outcomes Award' for the year 2022.

**Acculytix | Data Science Intern** | Vijayawada, India | **Tech Stack:** ReactJS, Python, AWS, Power BI | 12/2020 – 10/2021

- Built a Python-based web application that extracts, cleanses real-time data feed from web articles and tweets to analyze the impact of external factors on markets. Our fine-tuned BERT architecture has produced 84% testing accuracy.
- Developed a ReactJS website for real-time crime prediction and visualization, achieved a testing accuracy of 40.3%.

## PATENTS

**MEERA: Movie Emotion Extraction for Review Assessment** | Tech Stack: Python | 11/2020 – 12/10/2021 [Publication Date]

- Patent focuses on generating movie reviews by capturing and quantifying facial emotions of audience in theaters. It addresses challenges like low lighting with only a 6.7% decline in accuracy, crowd segregation, and optimal capture intervals.

**Alert Generation System for Non-Face Mask Anonymous Users** | Tech Stack: Python, Deep Learning, ReactJS | 04/2022 – 02/2023

- Patent proposes an algorithm for detecting face masks in low-light settings with 98.7% accuracy and generates alerts for anonymous unmasked individuals without disrupting the audience.

## PROJECTS

**Tenant Finder** | Tech Stack: Natural Language Processing, Java, Firebase Storage | 03/2022 – 08/2022

- Designed and developed an Android app that allows property owners to list their properties. Integrated a BERT transformer into the mobile application to recommend places to tenants based on their preferences.

**Recommendation System for Real-Estate Market** | Tech Stack: ReactJS, Python, Foursquare API, NodeJS | 01/2020 – 05/2020

- Built a Machine Learning algorithm that recommends optimal business locations by analyzing competitors, reviews, and budget.

**Black Inferno** | Team lead | Tech Stack: Python, Raspberry Pi, Pi Cam | 12/2018 – 05/2019

- Constructed a smart car prototype that accounts for thermal radiation, distance variance, and object detection to avoid surrounding obstacles in real-time with a latency of 0.3 seconds. Semifinalists in the VIT-Incubation trails 2019.

**The Sentinel** | Tech Stack: Python, Arduino, Raspberry Pi, Pi cam, IR, and Ultrasonic sensors | 07/2018 – 12/2018

- Built a drone that senses threat, gathers climate and geographical data, and constructs 3D maps with the help of a Pi-Camera.

## CERTIFICATIONS

- **Microsoft Azure AI Fundamentals- AI-900** | Microsoft
- **Software Developer Bootcamp** | Construx Software
- **Databricks Codefest** | The Mill Innovation Lab
- **PySpark Learnathon** | Shell
- **Neural Networks and Deep Learning** | DeepLearning.ai
- **IBM Data Science Specialization** | IBM
- **Big Query for ML, Data, and Image Processing** | Google Cloud

## HACKATHONS

- **Decarbonizing Cities** | Shell | Semifinalist
- **DIY Grand Prix** | Shell
- **AI Powered Knowledge Mining Open hack** | Microsoft | Winner
- **Green Software Challenge** | Shell
- **TechnoUtsav 3.0** | Deloitte | Quarterfinalist