Megha Sri Satya Sai Devineni

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EDUCATION

University of California Irvine | *CGPA: 4.0*   *09/2023 – 12/2024 [Expected]*
Master of Data Science

Indian Institute of Technology Madras | *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.
- Conversed 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.

Acculytixs | 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, crowd segregation, optimal capture intervals, and converting emotions into quantified reviews.

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 and generates alerts for anonymous unmasked individuals without disrupting the audience.

PROJECTS

Tenant Finder | Tech Stack: Java, Firebase Storage | *03/2022 – 08/2022*
- Designed and developed an Android app that allows property owners to list their properties, and tenants can view these to buy or rent them.

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.

The Smart Lustro | Team lead | Tech Stack: Python, Raspberry Pi, Pi Cam | *12/2018 – 05/2019*
- Constructed a 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.

Black Inferno | Tech Stack: Python, Arduino, Raspberry Pi, Pi cam, IR, and Ultrasonic sensors | *07/2018 – 12/2018*
- Built a drone that senses threat and gathers climate and geographical data. A live feed from the cameras is used to detect threats.

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