SOMASEKHAR GOUD ADDAKULA

Computer Science Engineer

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EDUCATION

Masters in Data Science
State University of New York at Buffalo

📅 2023 Jan – present   📍 GPA:3.75

Buffalo, New York, United States

Bachelors in Computer Science Engineering
Sreenidhi Institute of Engineering and Technology

📅 2017 – 2021   📍 CGPA:9.00

Hyderabad, Telangana

EXPERIENCE

Data Science Intern
Spero Institute

📅 2024 – present   📍 Texas, United States

🏆 As a Healthcare Tech Intern, I'll primarily focus on integrating an AI predictive model into our platform. My role involves leveraging measurement-based care metrics to track patient behaviors, symptoms, and mood changes. The goal is to create a system that alerts clinicians promptly in high-risk scenarios. I will contribute to backend and ML integration, employing python, using AWS cloud stack especially Elastic Stack (Elasticsearch, Kibana, Logstash) and Kafka and incorporating ML technologies such as GPT-3, PyTorch, and Scale AI data labeling for advanced capabilities. Standard health care standards HL7 and FHIR. Focus on NextGen healthcare.

Data Engineer
Infosys Limited

📅 2020 – 2023   📍 India

🏆 As a Systems Engineer, I excelled in managing two pivotal projects, showcasing expertise beyond conventional database management. Leveraging Social Media APIs from platforms like Facebook, Salesforce, MongoDB I executed Snowflake ingestion and DBT processing for valuable insights using Hadoop and Spark. Simultaneously, I demonstrated proficiency in handling data from a Postgres server, mastering Snowflake ingestion and DBT model execution, emphasizing my ability to seamlessly integrate diverse datasets. Additionally, I played a crucial role in incorporating Tableau for dynamic visualizations, enhancing the interpretation of insights from traditional and social media data. Contributions extended to designing and optimizing Azure Data Factory pipelines, Databricks and Spark ensuring efficient data flow across platforms. Aggregating data tables from various sources, including social media platforms, improved data quality and accessibility significantly.

EXPERIENCE

Software Developer
BlastMyMarket

📅 2018 – 2023   📍 United States

🏆 In my role at developing Unicorn Joystick, Sales Team's Dream I was instrumental in unlocking the potential of effective mass calling, contributing to the development of a powerful solution for seamless call redirection. This involved leveraging my expertise in React,JS, Typescript for frontend development, and Node.js, Express, python for backend. The technology stack included GCP cloud services, Websockets, Twilio, WebRTC, Postgres, Bulk API and Drop RVM API, Java and Java APIs with Ember Framework. I took charge of real-time analytics and reporting, empowering the team to identify bottlenecks, refine sales strategies, and enhance conversion rates. My responsibilities extended to crafting a user-friendly interface that streamlined manual tasks, allowing the sales team to focus on building relationships and closing deals. The result was a transformation in sales strategy, boosting productivity, customer satisfaction, and overall revenue. Additionally, I spearheaded the development of Ringless Voicemail, a cutting-edge solution for delivering personalized messages without disruption, leading to increased engagement and response rates. The creation of a user-friendly interface for campaign management, allowing easy creation and management of campaigns with CSV file integration, further showcased my commitment to effective communication strategies. Frontend performance optimization was a key focus, ensuring the application's responsiveness across various devices, especially considering the usage patterns throughout the workday. Throughout these roles, I accumulated over 2 years of experience in building complex systems, demonstrating extreme ownership, and solving hard problems. recommendation and ranking models. Writing the Automated testing test cases and Unit cases for better working and following the standards of coding. Worked on the GCP cloud and its features. Will also want to include the statistical methods, deep learning methods and if required Natural language processing methods with Generative AI to build more features.

PROJECTS

Digital Marketing
- Working on getting the data from different Social media API and performing snowflake ingestion followed by DBT processing.

Demand Landscape
- Worked on getting the data from the Postgres server performing snowflake ingestion and running DBT models. Worked on developing ADF pipelines and managing them.

College guide App
- This app uses Augmented reality. When augmented pictures of different locations present in the college are clicked then information about them is given and some are redirected to the college website.

Abandoned Bag Detection
- Implemented transfer learning by modifying the last layer of a neural network for relevant output classes. Improved abandoned object detection in a web application by addressing limitations in the previous system, which solely relied on frame comparison and Canny edge detection. The new approach incorporates multiple object recognition and tracking algorithms to enhance precision and handle scenarios involving object movement within the frame.

Data Analysis Case studies
- Have Worked on different Case studies like Wine quality, Fuel economy, etc

Machine learning Case studies
- Have Worked on different Supervised and Unsupervised learning algorithms on different data sets.

Swarm- GPT
- Implementing swarm intelligence techniques for open-source models in Hugging Face to reduce the cost of training large models through fine-tuning methods. The goal is to create a distinct ecosystem for large language models, optimizing their performance and resource utilization.

SKILLS

- C, Java, Python, R , MS Office
- Familiar with MySql and Oracle databases
- HTML, CSS, JavaScript
- Git, Data Analysis, Machine Learning
- Time Series in R, Flask, FastAPI, Nodejs
- Generative AI , Large Language Models
- Scikit-learn, Tensorflow, Keras libraries
- OpenCV, Pillow
- NLTK, SpaCy, Transformers(Hugging Face)
- Snowflake, API programming, Postman, Data Built Tool
- Azure Devops, Azure data factory, Azure Databricks, Salesforce
- Azure Cloud, Google Cloud Platform
- Amazon Web Services, API gateway, Lambda, S3, IAM, RDS, Cloudwatch

PUBLICATIONS

- Published paper in IJNIET UGC approved journal on Augmented Reality (January 2020)

LEARNING

- **NPTEL Certificates** Achieved 80 percentage in Java,python and DBMS courses
- **Udacity Certifications** Data Analyst, Intro to Machine Learning with TensorFlow and Natural Language Processing Nanodegrees
- **Udemy Learnings** Tableau 2020
- **Infosys Certifications** Python and SQL certified from Infosys
- **Azure Certifications** AZ-900 certified
- **Deep Learning.AI** Generative AI for everyone, Chatgpt prompt Engineering

CLUB ACTIVITIES

Tech Lead in ECA Club-COE (Emerging Computer's Arena)
- Contributions:Have done a Feedback app for sessions conducted with Firebase connectivity.

Member of the Technical association of CSE-COE (Computer science and engineering)
- organized boot camps and hackathon.

LANGUAGES KNOWN

English | Telugu | Hindi

INTERESTS

Machine Learning | Teaching
Data Science | Problem Solving
Blogging | Music | Coding