

# SOMASEKHAR GOUD ADDAKULA

## Computer Science Engineer

@ somasekhar.addakula@gmail.com

+1 716 604 4029

United States

github.com/somashekhar34

in linkedin.com/in/somasekhar-addakula-a2a404184

tsomashekhar34.blogspot.com

## EDUCATION

Masters in Data Science

**State University of New York at Buffalo**

2023 Jan – 2024 June 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

Healthcare Tech Intern

**Spero Institute**

2024 Jan – 2024 May Texas, United States

- Integrated AI predictive model into healthcare platform, leveraging Python and AWS cloud stack, including Elastic Stack and Kafka, for backend and ML integration.
- Utilized advanced ML technologies such as GPT-3, PyTorch, and Scale AI data labeling to enhance predictive capabilities and track patient behaviors, symptoms, and mood changes.
- Adhered to healthcare standards like HL7 and FHIR, focusing on NextGen healthcare, to ensure compliance and seamless integration of AI predictive model into the platform.

Data Engineer / Scientist

**Infosys Limited**

2020 – 2023 India

- Led pivotal projects in data pipeline development, SQL, Python, and Azure Databricks, showcasing proficiency in these technologies.
- Utilized Vertex AI for advanced machine learning model training and deployment, while employing APIs to extract data from social media platforms.
- Orchestrated data workflows with Dagster, ensuring reliability and scalability of pipelines through extensive testing and deployment tools like pytest, black, and flake.
- Designed and optimized Azure Data Factory pipelines for efficient data processing and storage, incorporating Tableau for visualization.

## EXPERIENCE

Partial Product Owner / Founding Engineer

**Blastmymarket**

2018 – 2021 Ohio, United States

- Led development of Unicorn Joystick, focusing on mass calling and call redirection using React.js, Node.js, and Python.
- Spearheaded Ringless Voicemail creation, boosting engagement rates, and optimized frontend performance for device responsiveness.
- Utilized GCP services, Twilio, WebRTC, and Postgres for robust solutions, alongside HTML, CSS, JavaScript, and PHP for browser extension development.
- Used Bulk and Drop APIs to ensure robust communication solutions.
- Accumulated 2 years of experience in complex system development, emphasizing automated testing and adherence to coding standards.
- Integrated statistical methods, deep learning, and natural language processing techniques for enhanced capabilities.
- Extensively utilized GCP cloud features, ensuring efficient system operations and scalability.

API Developer

**Accuracast**

2019 – 2020 London, United Kingdom

- Collaborated extensively with the ClubMed API, enabling connections with platforms like Google Resorts API and Facebook Resorts API.
- Leveraged Python and GCP for API development, while implementing cron scheduling and adhering to clean coding practices.
- Generated XMLs and facilitated seamless data exchange between systems, ensuring efficient integration with various platforms.
- Ensured that end to end flow of data is good with email alerts if the script failed.

## PROJECTS

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### 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, improving abandoned object detection in a web application.
- Enhanced precision and object movement handling by incorporating multiple object recognition and tracking algorithms, addressing limitations of the previous system based on frame comparison and Canny edge detection.

### 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

- Implemented swarm intelligence techniques for open-source models in Hugging Face to reduce training costs through fine-tuning methods.
- Created a distinct ecosystem for large language models, optimizing their performance and resource utilization.

## SKILLS

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- C, Python, R , MS Office
- Familiar with MySQL and Oracle databases
- HTML, CSS, JavaScript
- Git, SQL, 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
- Azure Cloud, Google Cloud Platform
- Amazon Web Services, API gateway, Lambda, S3, IAM, RDS, Cloudwatch

## PUBLICATIONS

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

## LEARNING

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- **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

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### 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

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English

Telugu

Hindi

## INTERESTS

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Machine Learning

Teaching

Data Science

Problem Solving

Blogging

Music

Coding

## BELIEF

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"I will keep saying, you will hear from me all the time - that is how we want to work aggressive, it's not going to work every time and be lucky enough to succeed but I can tell you, every one is terrified when they come up against us & we got to blow some companies out of the water before they have even entered into the market"