

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. Collaboration with the software development team and seamless integration with UX/UI designs are key aspects.

Data Engineer (Systems Engineer)

Infosys Limited

2021 – 2023

India

- As a Data Engineer, I adeptly managed two key projects. First, I harnessed Social Media APIs to extract data, executing Snowflake ingestion and DBT processing for optimal insights. Second, I efficiently handled data from a Postgres server, excelling in Snowflake ingestion and DBT model execution. My contribution extended to designing and optimizing Azure Data Factory pipelines for effective data management. I Have aggregated the data tables to produce some great insights. These endeavors bolstered data quality, accessibility, and availability, aligning with our organization's data-driven decision-making objectives.

Software Intern

IIIT - Hyderabad

2017 – 2018

India

- I meticulously debugged, rectified errors, and conducted rigorous testing on the V-Labs IIIT-H website, tailored to meet student needs. I actively engaged in Git, using it for pulling, pushing, and committing code changes to ensure collaboration and version control.

FREELANCE WORK

Natural Language Processing Developer

Raven Innovations

2020 – 2021

India

- As part of the development process, I have created a chat bot for the Virtual Empleado Website, a platform that unites educators, companies, and students. I executed various data pre-processing steps, including data cleaning, tokenization, and data augmentation. Subsequently, I trained a custom model using the prompts provided in the intents.json file and finally deployed the model in my Android application.

Python Full Stack Developer

Credible Home Inspection

2018 – 2019

United States of America

- As part of the development process, I have created an analytics website for a Credible home inspection company. This is a web application hosted on Google Cloud where I used HTML, CSS, Bootstrap, and JavaScript for the front end, while Python is employed for the back end. I also integrated a Tableau Dashboard for viewing data tables and statistics using the JavaScript Embedding API.

Python Full Stack Developer

Blastmymarket

2019 – 2020

United States of America

- As part of the development process, I have created a BRM (Blastmymarket Customer Relationship Management Tool). This is a web application hosted on their own server, where I used HTML, CSS, Bootstrap, Three.js, and JavaScript for the front end, while Python is utilized for the back end. This application works seamlessly with the Unicorn Joystick, a Google Chrome Extension used to deploy calls, SMS, and ring-less voicemails directly from the browser itself, in bulk.

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, Cpp, Python, R , MS Office
- Familiar with MySql and Oracle databases
- HTML, CSS, JavaScript
- Git, Data Analysis, Machine Learning
- Time Series in R, Flask, FastAPI
- 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 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

