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

Systems Engineer (Data Engineer)

Infosys Limited

2021 – 2022 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

2021 – 2022 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. My commit messages were clear and informative, aiding team communication. Additionally, I actively participated in peer evaluations, providing constructive feedback to enhance collaboration and knowledge sharing.

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
- In this project, I employed a transfer learning mechanism by substituting the last layer of the network with the output classes pertinent to our objectives. In the previous system, the process was as follows: if there was no object movement within the frame, the system would identify the object as abandoned. For instance, if a person dropped a bag and subsequently left the frame, but another person entered the frame, the system refrained from flagging it as abandoned. This determination relied on a frame comparison technique that incorporated Canny edge detection. My web application was designed to rectify this limitation and enhance the precision of abandoned object detection. It achieved this by incorporating various object recognition and tracking algorithms.

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.

SKILLS

- C, Cpp, Python, R , MS Office
- Familiar with MySql and Oracle databases
- Big Data Basics, Postman
- HTML, CSS, JavaScript
- Git, Data Analysis, Machine Learning
- Time Series in R
- Flask, FastAPI
- Scikit-learn, Tensorflow, Keras libraries
- OpenCV, Pillow
- NLTK, SpaCy, Transformers(Hugging Face)
- Snowflake, API programming, DBT
- Azure Devops, Azure data factory
- Azure Cloud, Google Cloud Platform

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