SRINIVASA SAI ABHIJIT CHALLAPALLI
Data Engineer
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EDUCATION

University of Texas at Arlington   Arlington
Masters in data science | GPA: 4.00/4.00   **Aug 2022 – Expected May 2024**
V.R. Siddhartha Engineering College   India
Bachelor Of Technology in Electronics and Communication Engineering | GPA: 3.50/4.00   **Sep 2016 – Nov 2020**

EXPERIENCE

Data Engineer - Capgemini Technology Services India Ltd |Python, ETL, TWS, Linux.   **Feb 2021 – July 2022, India**
Achievements/Tasks

- **Achieved** a flawless track record with a **100% success rate** in architecting and delivering intricate ETL pipelines well within stringent deadlines, consistently upholding code excellence.
- **Conducted** in-depth analysis of internal data warehouse requirements, enhancing **40% functionality** and **performance.**
- **Expertly** extracted and transformed data from warehouses, translating business needs into **50+ reports and visuals**.
- **Proficiently developed and deployed** automated test scripts within the ETL framework using Ab Initio, resulting in streamlined and **60% efficiency** gains in testing processes.
- **Implemented** data integration services to securely transfer payment data & invoices between **4 applications** of clients.
- **Instrumental** in onboarding and mentoring, empowering **5 new** contractors in data analysis.

SKILLS

- **Programming Languages:** Python, C, HTML
- **Databases & Frameworks:** SQL, MySQL, OpenSearch
- **Platforms & Applications & Skillset:** Azure, AWS, Business Intelligence, Big Data, Data mining, Data Analysis, Google Colab, Jupyter Notebook, Tableau, OpenCV, Keras, TensorFlow, NetworkX, Pandas, NumPy, Matplotlib, Scikit-learn, MATLAB, NLTK, Google Cloud, Weka, Data structures, ETL Ab initio, TWS,

PROJECTS

Sarcasm Detection on Twitter Datasets| Python, NLTK, Google Colab, TensorFlow, Keras.   **Mar 2023**

- **Detected** positive, dissatisfied, and complex emotion (Sarcasm) in customer's reaction.
- **Used** (BiLSTM-DNN) Bi-directional Long Short-Term Memory Deep Neural Networks model. **Executed** Hyper-parameter Tuning using Grid-Search-CV with **85% accuracy**.

Vehicle Collision Analysis Using |Python, Pandas**, NumPy, Matplotlib   **Dec 2022**

- **Thoroughly** assessed New York crash dataset, revealing crash frequencies by vehicle make/type with precision.
- **Extracted, cleaned, examined,** and **visualized** the data which consists of 3million records during the period 2019-2022
- **Identified** sedans as the most accident-prone and highlighted SUVs as the safest vehicle category.

Classification Project (Titanic Survival Prediction) | Python, TensorFlow, Pandas, NumPy, Matplotlib   **Nov 2022**

- **Conducted exploratory data analysis** on the Dataset, consisting of **887 records**, revealing insightful patterns and trends.
- **Cleansed** the Dataset by **validating and refining data**, ensuring **95% accuracy** in alignment with column specifications.
- **Built different models** for classifying the data and calculated accuracy for each model. Observed that Decision tree and KNN classifiers have highest accuracies.

Analyzing DBLP Database | Python, Pandas, NumPy, NetworkX, Matplotlib   **Sep 2022**

- **Masterfully** managed DBLP's comprehensive **40 million-record** database for computer science publications.
- **Analyzed** the database for paper citations, journals and publications to determine how the authors were mutually connected and the count of citations of paper/author. Revealing **10,000+ paper** and **author citations**
- **Applied Graph Theory** and **Network Analysis** (Undirected and Directed graphs) to successfully **conclude** the project, revealing **collaborative patterns** among authors based on shared research domains or affiliations, including identification of the most highly cited paper and author.

IoT Bases Full-Duplex Smart Braille System for The Blind and Deaf | C, Arduino- Uno, Raspberry-Pi, OCR, IoT   **Aug 2021**

- **Built** a messenger kit for the specially abled persons for better communication and interactive in the real world
- **Engineered** a groundbreaking **WIFI module** to establish seamless communication channels for individuals with special needs, resulting in enhanced accessibility and independence within the community.

ACHIEVEMENTS

- **Research Paper** presented in JETIR on IOT Based Full Duplex Smart Braille System for Deaf and Dumb. **Journal Number: 63975, ISSN: 2349-516**
- **President** for ATISAYA STUDENT CLUB for2 years during my Bachelors.
- **Publishing** Research Paper with Professor Jesus A. Gonzalez at UTA.
- **Secured** Rank 1 in Capgemini Training.
- **Mentored** for "DATATHON" 24-hour coding challenge organized by ACM and UTA Libraries.

CERTIFICATIONS.

- **Python Data Structures**
- **Python for Everybody**
- **Communication Strategies for a Virtual Age**
- **What is Data Science?**
- **Supervised Machine Learning**