



# SHARATH CHANDRA SURAM

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## Education

- **JNTUH College of Engineering Hyderabad**, *B.Tech in Mechanical Engineering* 2019 – 2023
- **WorldQuant University**, Applied Data Science Lab 2023
- **IBM Data Science**, Professional Certification 2023

## Experience

### Aidwise.ai

Sep 2023 – Present

*Data Scientist*

*Noida(Remote)*

- Applied NLP and Generative AI techniques to classify data across 50+ themes, enabling the identification and analysis of key performance indicators (KPIs), trends, and organizational challenges, resulting in a 30% improvement in decision-making efficiency and a 25% reduction in manual data processing time.
- Utilized advanced data parsing techniques in Pandas to develop an 837 file parser, converting 1000+ claims files into Excel format, which were then used to build interactive Power BI dashboards.
- Designed and developed 20+ BI dashboards and reports in Power BI, leveraging Power Query for data transformation, DAX for complex calculations, and SQL for data extraction, resulting in a 20% reduction in report generation time and improving data-driven decision-making.
- Preprocessed and cleaned a dataset of over 2.5 million rows, performing feature engineering to enhance data quality. Created a clustering model using Synthea data from a population of 60,000, incorporating utilization rates, comorbidities, and geographical data, achieving a silhouette score of 0.53.

### Chegg

Sep 2021 – Sep 2023

*Subject Matter Expert*

*Remote*

- Solved over 800 advanced mathematics problems, helping students grasp challenging concepts and improve their academic performance.
- Provided 500+ detailed explanations and step-by-step solutions, consistently earning 5-star ratings from students, significantly enhancing their understanding of complex mathematical topics and boosting overall academic performance

## Personal Projects

### Cold Email Generator | *Groq, Langchain, Streamlit, ChromaDB, Lama 3.1*

- Designed a simple tool that allows users to input the URL of a company's careers page. The tool extracts job listings from that page and generates personalized cold emails for specific positions.
- Integrated a vector database to source relevant portfolio links based on job descriptions, ensuring customized emails that increase engagement rates.

### Hate Speech Detection | *Pandas, Deep Learning, NLP*

- Implemented NLP to detect hate speech using deep learning techniques, handling over 30,000 text rows
- Preprocessed text data through cleaning, tokenization, and stemming, enhancing data quality for model training. Built and trained a deep learning model with TensorFlow and Keras.
- Created an interactive Gradio app for real-time hate speech detection, integrating the trained model for predictions.

## Technical Skills

**Languages:** Python, Java, HTML/CSS, SQL

**Developer Tools:** VS Code

**Data Visualisation:** Powerbi

**Libraries:** Pandas, NumPy, Matplotlib, scikit-learn, Seaborn, Tensorflow, Pyvis

**Additional:** Machine Learning, Deep Learning, MS Excel, Git, Github

## Certifications

- **IBM Data Science Professional**
- **British Airways-Data Analytics Programme**
- **SQL(Advanced)-Hacker Rank**
- **Power BI-LinkedIn**