Jyothi Sravanthi Somu

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Professional Summary

Aspiring Data Scientist with strong foundation in machine learning and data analysis with the capability in software development. Proficient in a range of programming languages such as Python, R, SQL, and Java for hands-on experience in predictive model construction and data-driven solutions built through multiple projects and a quick learner with a team play mentality, strong analytical skills, and an eagerness to find innovative technological solutions for the most complex business challenges. Agile developer with experience in Agile environments, committed to continuous learning and professional growth.

Skills

Programming Languages: Java, Python, C, R, SQL
Data Science: Data Analysis, Visualization, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn,SciPy
Tools & Platforms: MS Excel, MS Word, Jupyter Notebooks
Soft Skills: Analytical Thinking, Problem-Solving, Team Collaboration, Adaptability
Languages: English (Proficient), Telugu (Proficient), Hindi

Education

Under Graduate | B.Tech in Computer Science
Aditya College of Engineering and Technology, Andhra Pradesh, India
Expected Graduation: April 2026 | *CGPA:* 8.7 (Second Year: 80%)

Extracurricular Experience

Accenture North America Data Analytics and Visualization Job Simulation on Forage - March 2024

- Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture
- Cleaned, modeled and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions
- Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders

J.P. Morgan Software Engineering Virtual Experience on Forage - May 2024

- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Experience

Data Science Intern - CodSoft (May 2024 – June 2024)

- **Movie Rating Prediction:** Developed a regression model in Python to predict movie ratings based on features like genre, director, and actors. Analyzed and Preprocessed data and does feature engineering to improve model accuracy.
- **Classification of Iris Flower:** Constructed the classification model in R to classify Iris flowers into species using sepal and petal measurements. Used the Iris dataset for simple classification assignments and Obtained an **accuracy of 96.67%.**
- **Sales Forecasting:** Designed a predictive model in Python for the prediction of sales of a product. Analyzed the various factors such as advertisement spending and segmentation of target audiences to optimize advertisement strategies for maximum sales potential. **Had a high R² score of 0.9091484341849798.**

Python Programming Intern - InternPe (May 2024 - June 2024)

- Developed and implemented Python-based projects to cultivate problem-solving and programming skills.
- **Tic-Tac-Toe :** Design and development of a fully functional game of Tic-Tac-Toe using Python, emphasizing game logic and user interaction.
- **Snake Game:** Made a game of Snake with basic mechanics involving snake movement, food generation, and collision detection.
- **Digital Clock:** Developed a digital clock application with Python, emphasizing time display and graphical user interface design.
- **Connect Four Game:** Developed a Connect Four game by implementing game rules and player interaction features.

Projects

Project: SMS Spam Classifier Model **Repository**

- Developed and deployed a machine learning model to classify SMS messages as spam or non-spam on **5572 rows × 5 columns** dataset.
- Used Python libraries like Pandas, NumPy, Scikit-Learn, NLTK, and SpaCy for data pre-processing and model development.
- Applied feature engineering techniques like TF-IDF to transform the text data into a numerical format for most machine learning algorithms.
- Explored multiple models and selected the best according to accuracy, precision, and recall. It had an **accuracy of 98.45%, with a precision of 98.41%.**
- Visualized model performance by using Matplotlib and Seaborn, and implemented the model with streamlit.

Project: Social Media Sentiment Analysis **Repository**

- Completed detailed analysis of sentiment trends for social media data **74682 rows x4 column** dataset to know how society may react on a specific topic or the sentiments among brand ambassadors.
- Executed data gathering techniques including preprocessing and visualization technique on Python, Pandas, NLTK, TextBlob, Matplotlib and Seaborn.
- Performed sentiment analysis using pre-trained models and custom classifiers in order to classify the posts into positive, negative, and neutral categories.
- Visualized the trends of sentiment over time using line charts to determine key insights into public shifts of sentiment and perceptions of the brand.
- Applied visualization techniques like word clouds to depict frequently mentioned terms in positive, negative, and neutral sentiment categories.

Certifications/Courses

Introduction to Natural Language Processing, Infosys Spring Board – August 29,2023 | **Introduction to deep learning**, Infosys Springboard – August 31,2023 | **Java For Beginners**, Infosys Spring Board - November 3,2023 | **Python Foundation - Quick Jump Start for Programmers**,Infosys Springboard - March 14,2024 | **Databases and SQL for Data Science with Python** - July 1,2024 | **Introduction to Agile Testing**, Infosys Springboard - July 5, 2024 | **Artificial Intelligence Foundation Certification**, Infosys Springboard - July 28, 2024 | **Introduction to Data Science**, Infosys Springboard – July 31, 2024 | **Introduction to Machine Learning**, NPTEL | **Building an Agile Mindset**, Infosys Springboard -July 5, 2024 | **Introduction to Agile Testing,** Infosys Springboard - July 5, 2024