

SRIHARSHA VELICHETI

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Sriharsha Velicheti is a seasoned Data Science and AI expert and a Freelancer with a proven track record in leveraging data analytics to drive business insights and strategic decision-making. With exceptional skills in Python programming and machine learning, he excels at transforming complex data into actionable solutions for enhanced business performance.

AREA OF EXPERTISE

Python programming	Descriptive Statistics	SQL
Data Science	Machine Learning	Flask

PROFESSIONAL EXPERIENCE

Multimodel RAG application (Research intern @ Siemens)

Jan 2024- May 2024

- Developed and implemented a scalable Retrieval Augmented Generation (RAG) application, resulting in a 25% improvement in data retrieval accuracy and a 30% increase in generation efficiency, while maintaining high standards of data security and privacy.
- Managed and processed diverse data files (PDF, DOCX, CSV, Excel) and collaborated with multiple teams, reducing data integration time by 40% and improving overall data handling efficiency by 35%.
- Utilized advanced technologies such as Langchain, llama_index, Qdrant, HuggingFace, Python, Flask, and Streamlit, leading to a 20% reduction in application deployment time and a 15% enhancement in system performance and user interaction.

PROJECTS

Advanced Interactive Data and Text Exploration Tool

- Developed an advanced interactive tool to facilitate comprehensive data and text analysis, enabling users to effortlessly upload, manipulate, and visualize diverse datasets for deeper insights.
- Technologies and Tools Used:** Leveraged Python and Streamlit for application functionality, incorporating Pandas for data manipulation, Matplotlib and Seaborn for data visualization, and WordCloud and TextBlob for enhanced text analysis capabilities.

Health Risk Prediction App (Group Project)

- A Flask-based web application to predict individual health risks using lifestyle data, aimed at providing users with actionable insights for proactive health management.
- Technologies and Tools Used:** Built using HTML/CSS, Flask, and Python, incorporating a Random Forest machine learning model for accurate risk prediction and personalized health recommendations, supported by data handling via NumPy and Pickle.

EDUCATION

Jain University | Bengaluru

Aug 2020 - June 2024

Bachelor of Technologies CSE (Data Science) - CGPA 8.756
Honors in Data science (specialization)

ADDITIONAL INFORMATION

- Achievements:**
 - Golden Badges in MySQL, Python in [hackerrank](#) platform
 - Solved over 200+ questions in [Leetcode](#).
 - Secured 3 bronze medals in [Kaggle](#) as a Discussion contributor.
 - Secured 6th individual position out of 159 participants in [MACHINE HACK](#) hackathon with an accuracy of 92.6%
- Certifications:** NPTEL certification on Python for Data Science with 69% score in the Exam conducted by IITM
- Awards/Activities:**
 - President** of Data Science Student Club for 10 months
 - Data Science Facilitator at **Google Developer Student Club** for a year and mentored over 100 students in the field of AI/DS/ML