SAMRIDHA SRINIVASAN

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EDUCATION

Coimbatore Institute Of Technology, Coimbatore	**Coimbatore**
M.Sc., Data Science (5 years integrated)	Expected June 2026
CGPA: 7.75 (up to 5th semester)	
Dr.Dasarathan International School, Coimbatore	**Coimbatore**
Grade 12(ISC) Percentage: 89.2%	June 2020 – May 2021
Grade 10(ICSE) Percentage: 80%	June 2018 – May 2019

SKILLS

1) Python – Pandas, NumPy, Matplotlib, Scikit-Learn, NLTK.
2) SQL – DDL, DML, Joins, Sub-Queries, MySQL, Views.
3) Power-Bi – ETL, Data Modelling, Buttons, Filters, Visualization.
4) Microsoft Excel – Data Cleaning, Functions and Formulas, Pivots, Charts, Lookups, Power Pivot, Power Query.

PROJECTS

AI-POWERED PDF INTERACTIVE QUERY SYSTEM
- Developed a Streamlit app enabling users to upload, process, and query PDFs, using PyPDF2 for text extraction and RecursiveCharacterTextSplitter for efficient segmentation. Integrated Google Generative AI Embeddings and FAISS to create a high-accuracy vector store, improving search relevance by 30%.
- Implemented the Gemini-pro model to build an AI system for context-based query responses, achieving enhanced accuracy with a 0.3 model temperature. Utilized tools including Streamlit, Langchain, and PyPDF2 for seamless functionality and comprehensive content coverage.
- **Tools Used:** Streamlit, Langchain, PyPDF2

TEXT SUMMARIZATION
- Developed a text summarization tool leveraging Natural Language Processing (NLP) techniques to condense lengthy documents or articles into shorter, coherent summaries while preserving core information and meaning. Successfully reduced the length of documents by an average of 70%.
- Implemented a 'Summarization Ratio' to determine the length of the summary relative to the original text, with a default summarization ratio set at 0.2.
- **Tools Used:** Streamlit, NLTK, Text rank algorithm

COVID 19 ANALYSIS
- Developed a COVID-19 dashboard for 10,000+ users, employing geographic visualizations like maps and heatmaps to highlight virus hotspots.
- Conducted comparative analysis across 100+ regions and countries, revealing crucial patterns and insights for informed decision-making.
- Facilitated data-driven understanding of the pandemic's spread and impact, aiding stakeholders in navigating response strategies.
- **Tools Used:** PowerBi

CO-CURICULAR ACTIVITIES

CHANGING FINANCIAL LANDSCAPE-HACKATHON (WINNER)
- Successfully navigated through 3 online elimination rounds, securing a spot in the final round hosted at IIM Mumbai, competing against 15+ teams.
- Utilized diverse machine learning techniques to analyze the correlation between ESG factors and financial performance, resulting in a notable improvement in predictive accuracy by 15%.
- Secured 1st place through resilience, strategic thinking, and collaborative teamwork, significantly contributing to the team's victory.

VIRTUAL INTERNSHIP

- Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture.
- Cleaned, modelled 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.

CERTIFICATIONS

- Data Analysis with Python (**Coursera**)
- Python for Data Science (**Cognitive Class**)