

SAMRIDHAA R  
22PD29

Gender Samridhaa R  
Date of Birth 28<sup>th</sup> September 2004  
Languages known English, Tamil  
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19,MMR Garden,Rajiv Gandhi Street,  
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OBJECTIVE

To obtain a position as a student intern from May 2025 to November 2025.

ACADEMIC QUALIFICATION

Currently pursuing 3<sup>rd</sup> year of 5-year Integrated M.Sc. Data Science at the Department of Applied Mathematics and Computational Sciences at PSG College of Technology.

SKILL SET

Languages	Python, C++, C, SQL
Libraries and Frameworks	NetworkX, BeautifulSoup, NLTK, Streamlit
Tools	Gephi, Figma

AREAS OF INTEREST

- Data Analytics and Visualization
- Data Structures and Algorithms
- Supervised Learning

ACADEMIC QUALIFICATION

- |  |                               |
|--|-------------------------------|
| • <b>M.Sc Data Science</b><br>PSG College of Technology, Coimbatore                              | 2022-2027<br><b>8.74 CGPA</b> |
| • <b>XII (Higher secondary, State board)</b><br>Avila Convent Matric. Hr. Sec School, Coimbatore | 2022<br><b>97.5%</b>          |
| • <b>X (SSLC, State board)</b><br>Avila Convent Matric. Hr. Sec School, Coimbatore               | 2020<br><b>91 %</b>           |

INDUSTRY-BASED PROJECT EXPERIENCE

**The Yellow Network** | Junior Data Analyst (May 2024-July 2024)  
Worked as a summer intern at The Yellow Network, a division of PSG STEP, contributing to the data analytics team. Automated web data scraping and cleaning using **BeautifulSoup** and **Selenium**, with task scheduling via **Cron jobs**, utilized **TesseractOCR** for image text processing.

## NON-ACADEMIC PROJECTS

- [Tamil-E : Tamil Brahmi Script Transcriber](#)

Developed a **CNN** model with 3 convolutional layers for Tamil Brahmi recognition, enabling classification across 325 characters. Built an augmented dataset and implemented image segmentation using **Otsu's thresholding** and **connected component analysis**. Created a Streamlit interface to translate script images into modern Tamil text.

## ACADEMIC PROJECTS

- [Credit Card Fraud Detection](#)

Developed a fraud detection model on a **SMOTE**-balanced dataset using **XGBoost** and Random Forest with **Homomorphic Encryption**. Applied **OPE** for intermediate comparisons and **Paillier encryption** on leaf nodes to keep predictions encrypted. Decrypted predictions using Paillier's private key for secure analysis. Deployed the encrypted model via Streamlit.

- [Social Media Data Analysis on Environmental Sustainability](#)

This project analyzes real-world Twitter data to assess public sentiment on environmental sustainability using **BERT**-based **sentiment analysis** from **Hugging Face Transformers**. Tweets are pre-processed with **NLTK**. The study uncovers trends and challenges related to human-environment interactions, highlighting opportunities for sustainability.

- [Music Player](#)

This project is a music player application built in C++ that allows users to create accounts, log in, and manage a playlist of songs. It utilizes file handling and **doubly linked lists** to add, play, delete, search, and display songs in the playlist. The project also integrates the **Windows multimedia API (mmsystem.h)** to play audio files in **WAV** format and uses structures for storing song details efficiently.

- [Video Player](#)

This project is a multimedia video player developed in Java using **JavaFX** and **SceneBuilder**. It supports media playback with features like volume control, playback speed adjustment, aspect ratio customization, and video navigation using sliders. The application integrates media controls through Java's **MediaPlayer** and **MediaView** classes. It utilizes **FXML** for UI design and event handling, ensuring a seamless media experience.

## EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Actively participated in camps and social volunteer activities as a member of **BSGIndia**.
- Engaged in glass painting showcasing creativity.

## DECLARATION

I, Samridhaa R, do hereby confirm that the information given above is true to the best of my knowledge.

Place: Coimbatore

Date : 19/01/2025

(Samridhaa R)