

SELVARAJAH VINUSHANTH

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PERSONAL STATEMENT

As a Data Science and Engineering undergraduate, I am deeply passionate about Machine Learning and Data Science. My proficiency in technical skills and my growing research experience have sharpened my abilities, positioning me well to excel in this field. I am eager to contribute my knowledge and expertise to a research opportunity that aligns seamlessly with my interests and aspirations.

EDUCATION

University of Moratuwa, Sri Lanka 2023-Present
BSc.Eng (Hons) Undergraduate specialized in Data Science and Engineering

J/Hindu College, Jaffna, Sri Lanka 2013 – 2021
G.C.E Advanced Level Examination
Z score: **2.4756** with **3A's**
G.C.E Ordinary Level Examination
7A's, 1B, and 1C

UNDERGRADUATE PROJECTS

Fraud Detection System (May 2025)

Developed a system to detect fraudulent activities using data analysis and machine learning techniques.

E-commerce Platform Development (Aug 2024)

Built a complete online shopping platform with user-friendly features and secure payment options.

Nano Processor Design (Apr 2024)

Worked on designing and simulating a nano-scale processor as part of a hardware project.

INDIVIDUAL PROJECTS

AI Vision Assistant Pro (Apr 2025)

Developed a real-time object detection tool using OpenCV to track selected objects, estimate distances, and alert users when objects come too close — useful for safety and surveillance.

AI-Powered Medical Chatbot (Mar 2025)

Developed a chatbot that answers medical questions only from a specific medical book.

Neura AI Build (Mar 2025)

Created a chat app that talks with AI models to answer questions, analyze images, and generate pictures.

InterestHub (Apr 2025)

Built a real-time chat application where users join topic-based rooms like Science, AI-Tech, and Finance. Integrated Firebase Authentication for login and Supabase for storing messages, images, and videos.

Private Cloud-Drive (Jan 2025)

Created a personal cloud storage system using MongoDB Atlas for PDF file storage and Cloudinary for handling images and videos efficiently.

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CERTIFICATIONS

SpiritX (May 2025)

Issued by MoraSpirit

Skills: Gemini API, Next.js

Recognized for participating in SpiritX, demonstrating teamwork and creativity in a 36-hour web development challenge.

Data Cleaning (Feb 2025)

Issued by Kaggle

Skills: Data Cleaning

Completed course on handling missing data, fixing inconsistencies, and preparing datasets for analysis.

Feature Engineering (Feb 2025)

Issued by Kaggle

Skills: Feature Engineering

Learned techniques to create and transform features to improve machine learning models.

Intro to Machine Learning (Feb 2025)

Issued by Kaggle

Skills: Machine Learning

Studied data preprocessing, model building, and decision trees.

Intro to Pandas (Feb 2025)

Issued by Kaggle

Skills: Pandas

Mastered basic data manipulation techniques using Pandas for efficient analysis.

MoraXtreme 9.0 – Algorithmic Coding Competition (Oct 2024)

Issued by IEEE Computer Society

Skills: C++

Competitor in a national algorithmic coding event to enhance problem-solving and coding speed.

TECHNICAL SKILLS

- | | |
|---|---|
| • Programming Languages | : Python, Java, C++,C |
| • Web Development | : HTML, CSS, JavaScript, React |
| • Database Management | : MySQL, MongoDB,Supabase |
| • Data Analysis & Machine Learning | : Python (pandas, NumPy, scikit-learn) |
| • Tools & Frameworks | : Git, Jupyter Notebook, TensorFlow (basic) |
| • Software Development | : Visual Studio Code, Eclipse |
| • Operating Systems | : Windows, Linux |

SOFT SKILLS

- | | |
|---------------------|-------------------|
| • Active Learning | • Problem-Solving |
| • Creative Thinking | • Leadership |
| • Flexibility | |
| • Teamwork | |

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MEMBERSHIP

- Institute of Engineers, Sri Lanka
Membership No: S-30449
- Tamil Literary Association

INTERESTS

- Machine Learning and Data Science
- Software Development and Coding
- Learning New Programming Languages
- Web and Mobile App Development
- Exploring New Technologies
- Volunteering and Community Work

EXTRACURRICULAR ACTIVITIES

- Completed several individual software development and data science related projects .
- Took part in Data Storm hackathon .
- Participated in SpiritX coding competition .
- Attended online courses and certifications on topics such as data science, machine learning, and software development to continuously improve skills .
- Collaborated with peers on mini-projects and coding challenges to enhance teamwork and coding abilities .

LANGUAGES

- English : Professional fluency
- Tamil : Native
- Sinhala : Basic