



# Sivanathan Dilakshan

Software Engineering Undergraduate |  
Aspiring Data Scientist & ML Engineer

## Contact

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## Concepts

- Data Science
- Machine Learning
- Deep Learning
- Data Analysis
- Data Visualization
- Natural Language Processing
- Statistics
- Artificial Intelligence
- Predictive Modeling

## About Me

Driven Software Engineering undergraduate from the University of Kelaniya, specializing in machine learning, data science, and artificial intelligence. Adept in Python, R, and data analytics tools, I am passionate about crafting intelligent systems that solve real-world problems. With a proven track record of innovative project execution and certifications from leading institutions, I aim to drive data-driven transformation in organizations. My ability to learn quickly, lead teams, and deliver high-impact results positions me as a top-tier candidate for any data-centric role.

## Education

- **B.Sc. (Hons) in Software Engineering (Undergraduate)**  
*University of Kelaniya* **July 2023 - Present**  
Current GPA: 3.48
- **G.C.E Advance Level Examination - 2021**  
*J/Jaffan Hindu College* **May 2017 - Nov 2021**  
Combined Mathematics - A | Chemistry - A | Physics - C  
Z-Score: 1.6928

## Projects

- **Smart Traffic Flow Optimization with Reinforcement Learning**
  - Developed a real-time smart traffic system using Deep Q-Learning to optimize signal timings.
  - Simulated city traffic patterns to reduce average wait times by 47% dynamically.
- **Disease Progression Prediction with Multi-modal Medical Data**
  - Built a hybrid CNN + LSTM model combining CT scan sequences and EHRs.
  - Achieved 88% accuracy on real-world lung cancer progression datasets.
- **Voice-to-Emotion AI Assistant with NLP & Spectrogram Analysis**
  - Designed an AI assistant analyzing voice tone and text using BERT + CNNs.
  - Enabled real-time emotion detection for mental health alert systems.
- **Real-time Stock Market Analyzer with Price & Sentiment Forecasting**
  - Developed a dashboard integrating ARIMA/Prophet models with Twitter NLP sentiment.
  - Achieved a 15% prediction accuracy boost over baseline stock forecasting tools.
- **Autonomous Resume Screening Bot with NLP & XGBoost**
  - Engineered an ATS-ready system using TF-IDF, BERT, and XGBoost for profile scoring.
  - Deployed as a Flask API for scalable, real-time enterprise recruitment.

## Programming Languages

- Python
- R
- SQL

## Achievements

- IT Project Leader, Digital Literacy Fiesta
- Organizer, G.C.E. O/L Education Seminar
- Top Content Creator, Pi Code - Tamil YouTube Channel

## Soft Skills

- Leadership
- Strategic Decision Making
- Time Management
- Team Collaboration
- Communication

## Languages

- English
- Tamil
- Sinhala

## Extracurricular Activities

- Executive Committee Member of the Software Engineering Students' Association
- Member of LEO club
- Member of Rotaract club

## Certificates

• Deep Learning Specialization <i>DeepLearning.AI</i>	2025
• Machine Learning A-Z™ <i>Python &amp; R in Data Science - Udemy</i>	2025
• Mathematics for Machine Learning and Data Science Specialization <i>DeepLearning.AI</i>	2025
• Advanced Data Analysis with Python <i>Coursera</i>	2024
• Math for Machine Learning <i>Simplilearn</i>	2024
• Data Analysis Using Python <i>IBM</i>	2024
• Data Analytics Essentials <i>Coursera</i>	2024
• Python for Data Analysis & Visualization <i>IBM</i>	2023
• Tableau Desktop for Data Analysis & Data Visualization <i>Google</i>	2023

## References

### Dr. Nalin Warnajith

Senior Lecturer (Grade II), BSc(Kel'ya), PGDipIT(Kel'ya), PhD(Japan), MACS  
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University of Kelaniya, Sri Lanka.  
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### Dr. (MRS) Isuru Hewapathirana

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## Confirmation

I do hereby solemnly and sincerely declare that the particulars stated in this application form are accurate and true to the best of my knowledge, and I bear full responsibility for the correctness of the above-mentioned particulars.

**Sivanathan Dilakshan**