



EMILY RAJAPAKSE

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PROFESSIONAL SUMMARY

Motivated Artificial Intelligence and Data Science undergraduate with hands-on experience in machine learning, computer vision, and data analytics. Skilled in Python, Java, and data-driven problem solving. Passionate about AI projects, hackathons, competitions, and research-focused volunteering.

EDUCATION

BSc (Hons) Artificial Intelligence & Data Science

Sep 2024 - Present

Informatics Institute of Technology (IIT), Colombo, Sri Lanka affiliated with RGU, UK

Relevant Modules:

- Programming Fundamentals
- Object-Oriented Programming (OOP)
- Web Development
- Machine Learning
- Database Systems
- Advanced Mathematics
- Mathematics
- Data Science

Aquinas Diploma in English & Literature

2023

Aquinas Institute (BCI), Bolawalana

GCE Advanced Level – Mathematics Stream

2021 - 2023

Ave Maria Convent, Negombo

- ICT - B, Combined Mathematics - C, Physics - S

GCE Ordinary Level

2019 - 2020

Ave Maria Convent, Negombo

- 5 A passes, 4 B passes

TECHNICAL SKILLS

Programming Languages:

Python, Java, SQL, HTML, CSS, JavaScript

AI & Machine Learning:

Machine Learning (Classification, Regression, Clustering), NLP, CNNs, Feature Engineering

Tools & Technologies:

TensorFlow, PyTorch, Pandas, Scikit-learn, Streamlit, Matplotlib, Seaborn, GitHub, VS Code, Jupyter Notebook, AWS

PROJECTS

INKIND - Child Emotion Prediction from Drawings

2025 - 2026

- Developed an AI-powered web application to analyze children's drawings and predict emotional states using deep learning
- Enabled detection of emotions such as happiness, calmness, anxiety, and sadness
- Built an interactive dashboard with visual indicators and probability scores

Technologies: Python, Deep Learning, Streamlit

GitHub: [DSGP-INKIND](#)

Customer Churn Prediction System

2025

- Built machine learning models to predict customer churn in the telecommunications sector
- Performed data preprocessing, feature engineering, and exploratory data analysis (EDA)
- Implemented Decision Tree and Neural Network models

Technologies: Python, Pandas, Scikit-learn

GitHub: [Telco-churn](#)

Dementia Risk Prediction System

2025

- Developed a web application to predict dementia risk using clinical and cognitive data
- Applied preprocessing, feature scaling, and EDA techniques
- Implemented Random Forest classifier with SHAP-based explainability

Technologies: Python, Pandas, Scikit-learn, Streamlit, Matplotlib, Seaborn

GitHub: [Dementia-prediction](#)

ACHIEVEMENTS & COMPETITIONS

Participant - IEEE Xtreme 25 Hackathon

Competed in a 24-hour global coding competition.

1st Place - Aftermath Competition (IEEE Student Branch)

Demonstrated teamwork and strategic problem solving .

Participant - Vertex 25 (IEEE RAS)

Participated in Sri Lanka's premier robotics and automation event with hands-on engagement.

CERTIFICATIONS

- CODL University of Moratuwa - Python programming 1 and 2
- CODL University of Moratuwa - Web Development 1 and 2
- IBM - Data Fundamentals
- Introduction to Cloud Infrastructure - Microsoft badge
- DevOps Foundations - Microsoft badge
- LinkedIn Learning - Artificial Intelligence Foundations: Machine Learning by Kesha Williams

LEADERSHIP & VOLUNTEERING

Public Relations Lead - IEEE Robotics and Automation Society, IIT

Responsible for managing outreach and increasing the society's visibility.

PR Vice chair (IEEE RAS) - RobotNexus 3

Workshop series covering line-following, wall-following, and other robotics fundamentals.

PR Vice chair (IEEE RAS) - Tecktrek 3.0

Industry visit series covering top companies and gaining industry exposure .

EXTRACURRICULAR ACTIVITIES

- IEEE RAS of IIT - Standing Committee PR Lead (2026)
- Volunteer - IEEE RAS, IET on Campus IIT , IEEE CIS , IEEE, IEEE WIE
- Prefects' Board Member – Ave Maria Convent
- Chess Club, Interact Club, Athletics

SOFT SKILLS

- Teamwork , Problem Solving , Communication , Critical Thinking , Adaptability , Time Management

REFERENCES

Malsha Fernando

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Rakitha Fernando

Software Engineer / Creative software

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