Vipooshan Balachandran

Computer Science Undergraduate

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Moratuwa,Colombo, Sri Lanka

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Motivated and detail-oriented 2nd-year Computer Science student with strong problem-solving skills and a passion for developing innovative software solutions. Skilled in Python, JavaScript, and Java, with experience in modern web development frameworks. Currently contributing to the development of a Tamil Large Language Model (LLM) focused on Sri Lankan linguistic and cultural context. Experienced in collaborative projects, WordPress customization, and AI tool integration.

EDUCATION

- **BSc (Hons) Computer Science** *2025 - Present*
  Informatics Institute of Technology, affiliated with the University of Westminster Colombo , Sri Lanka
- **Jaffna Hindu College** *20214 - 2022*
  Science Stream Advanced level Jaffna, Sri Lanka

PROJECTS

- **Personal Portfolio Website** *March - 2025*

  ○ Designed and built a fully responsive personal portfolio website using React and TailwindCSS. The site showcases my projects, skills, and experience with a modern, minimalist design and smooth user interactions.

    Tech:- React, Tailwind CSS

- **Life Below Water - Front-end Web project** *June - 2025*

  ○ Created a responsive website promoting marine conservation, featuring interactive volunteering forms, user reviews, a splash screen, and animated content sections. Focused on modern UI design, smooth navigation, and enhanced user engagement..

    Tech:- HTML, CSS, JavaScript

- **Sri Lankan Tamil Large Language Model (LLMs) - Ongoing** *2025 - Present*

  ○ Developing and fine-tuning a Large Language Model tailored for Sri Lankan Tamil. Utilizing CulturaX and MADLAD-400 datasets to improve low-resource language understanding, with work on dataset preprocessing, tokenizer development, and model evaluation.

    Tech:- Python , Transformers, Hugging face transformer, QLoRA, pandas, Pycharm

- **Data Cleaning Agent** *2025 Present*

  ○ Designed and implemented an AI data-cleaning agent to standardize, filter, and preprocess large-scale text corpora for LLM training.

SKILLS

- **Programming Languages:** python, Java, JavaScript, React, Type Script
- **Web Technologies:** HTML, CSS, Tailwind CSS
- **Database Systems:** MySQL
- **Version Control:** GIT, GitHub
- **Other Tools & Technologies:** Figma, Canva, Tkinter

CERTIFICATIONS

- Python for beginners (University of Moratuwa) | *Dec 2024*
- Web Design for Beginners (University of Moratuwa) | *Feb 2025*
- Figma Essential Training: The Basics(LinkedIn Learning) | *June 2025*
- Learning Java 17 (LinkedIn Learning) | *July 2025*
- Programming Foundations: Software Testing/QA (LinkedIn Learning) | *July 2025*
- Problem Solving - Basic (HackerRank) | *Feb 2025*
- Introduction to NLP and LLMs: Principles and Practical Applications | *Aug 2025*

ADDITIONAL INFORMATION

Languages

- Tamil (Native)

- English (Fluent)

- Sinhala (Working proficiency)

REFERENCES

1. **Subhaka Bhavanishankar**
Assistant Lecturer
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