# NISHARA JAYAKODY
## IT UNDERGRADUATE

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## ABOUT ME

Motivated and adaptable IT undergraduate with solid foundations in machine learning, deep learning, and data-driven problem solving. A fast learner and collaborative team player, seeking an **AI/ML Internship** to apply my skills on real-world datasets, gain hands-on industry experience, and contribute to developing innovative solutions.

## EDUCATION

**BSc (Hons) in Information Technology** | University of Moratuwa          **2023 - Present**
- CGPA = 3.81 (out of 4.00)
- Dean's list for Semester 2

**Assured Diploma in Information Technology** | Esoft Metro Campus, Gampaha          **2022**

**G.C.E. Advanced Level** | Holy Cross College, Gampaha          **2021**
- ICT - A | Physics - B | Combined Maths - C

## PROJECTS

- **Music Recommendation Chatbot**

Developed an AI-powered chatbot that recommends songs based on user mood using embeddings for vector-based retrieval and seamless Spotify playback, deployed via Docker.
Technologies: Python, PyTorch, HuggingFace Transformers, LangChain, Chroma, FastAPI, Next.js

**GitHub**

- **English Grammar Corrector**

Developed a T5-based AI system to automatically improves sentence grammar correctness and fluency, accessible via a FastAPI-powered web service.
Technologies: Python, PyTorch, Hugging Face Transformers, NLP, FastAPI, Next.js

**GitHub**

- **LeafCare - Plant Disease Recognition System**

Developed a CNN-based classifier for 38 plant diseases, achieving ~94% accuracy on benchmark dataset, with Dockerized deployment, providing care solutions based on model predictions.
Technologies: Python, TensorFlow/Keras, Scikit-learn, Streamlit, MongoDB

**GitHub**

- **ReviewInsight - Product Review Sentiment Analysis**

Developed a machine learning pipeline to classify product reviews using NLP and TF-IDF vectorization, achieving 90.2% accuracy, and deployed via FastAPI REST API.
Technologies: Python, Scikit-learn, NLTK, FastAPI, Pandas, NumPy

**GitHub**

- **PresCrypt - Doctor-Patient Management System**

Contribution: Developed frontend and backend features for the Doctor Portal, including patient and appointment management, video consultations, in-app notifications, and automated email alerts.
Technologies: Next.js, ASP.NET Core, MSSQL

GitHub: **Frontend** | **Backend**

## TECHNICAL SKILLS

- **AI & Machine Learning:** TensorFlow/Keras, PyTorch, LangChain, Hugging Face Transformers, Pandas, Scikit-learn, NumPy
- **Programming Languages:** Python, C, Java, JavaScript
- **Web Development / Frameworks:** React, Next.js, FastAPI, ASP.NET Core, HTML, CSS, Tailwind CSS
- **Databases:** MongoDB, MSSQL, Vector Database (Chroma)
- **Deployment & Version Control:** Docker, Git, GitHub
- **Project Management:** ClickUp, Jira

## SOFT SKILLS

- Problem Solving
- Leadership
- Effective Communication
- Teamwork
- Time Management

## CERTIFICATIONS

- Machine Learning Specialization - DeepLearning.AI
- LangChain for LLM Application Development - DeepLearning.AI
- Deep Learning Specialization - DeepLearning.AI (Ongoing)

## LEADERSHIP AND VOLUNTEERING

**AIESEC in Sri Lanka**     **2025**
- Software Engineer, Dev Team (Term 24.25, Sem 2)

**AIESEC in University of Moratuwa**     **2024 - 2025**
- Co-Lead, Marketing Team - Idealize 2025
- Showcasing Team Leader, B2C Team - oGV
- Co-Lead, Marketing - Beauty Beyond Ceylon 2.0
- Team Member, B2C Team - oGV - Awarded Best Performing Team Member

**IEEE WIE, University of Moratuwa**     **2024**
- Design Committee Member - HackElite 1.0, FestX 5.0

## NON-RELATED REFEREES

**Ms. M.N. Chandimali**
Lecturer(Probationary)
Faculty of Information Technology
University of Moratuwa

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