

# MATHURAKSHI MAHENDRARAJAH

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## PROFILE SUMMARY

Third-year Computer Engineering undergraduate specializing in AI, ML, and Data Science. Experienced in building and deploying ML, NLP, and Deep Learning models. Seeking a six month AI/ML internship to apply technical skills to real-world solutions and contribute to innovative AI projects.

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## EDUCATION

### B.Sc.(Hons)in Computer Engineering (Reading)

Feb 2023 - Present

University of Sri Jayewardenepura

CGPA -3.89 (Up to 4<sup>th</sup> semester)

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## PROJECT

### COMPLAINT UNDERSTANDING – NLP (SLM + LORA)

Dec 2025 - Ongoing

- Building a complaint classification system using DistilBERT fine-tuned with LoRA, improving macro-F1 on domain-specific data.
- Developing a Streamlit app to demonstrate model predictions and confidence scores for new inputs.
- Focusing on data preprocessing, model fine-tuning, LoRA optimization, and evaluation metrics, gaining deep hands-on expertise.
- Tech: **Python, PyTorch, Hugging Face Transformers, LoRA, Streamlit**

### PNEUMONIA DETECTION FROM CHEST X-RAYS | [GITHUB](#) | [LIVEDEMO](#)

Nov 2025

- Built CNN (MobileNetV2) to classify chest X-rays as Normal or Pneumonia; achieved 89% accuracy, 0.88 F1-score.
- Deployed interactive web app on Hugging Face Spaces for real-time predictions.
- Tech: **Python, TensorFlow/Keras, MobileNetV2, Flask, Hugging Face Spaces**

### CUSTOMER COMPLAINT INTELLIGENCE SYSTEM | [GITHUB](#) | [LIVEDEMO](#)

Oct 2025

- Developed AI system to classify customer complaints and flag urgency for banking services; achieved 83% validation accuracy.
- Deployed interactive Gradio app on Hugging Face Spaces for real-time predictions.
- Tech: **Python, Pandas, scikit-learn, Logistic Regression, TF-IDF, Gradio, Hugging Face Spaces, Git**

## CUSTOMER LIFETIME VALUE PREDICTION (CLV) | [GITHUB](#) | [LIVEDEMO](#)

Aug 2025 - Sep 2025

- Built ML pipeline to predict CLV from RFM features; compared Linear Regression and XGBoost.
- Deployed XGBoost model via Streamlit app; uncovered high-value customer segments for retention strategies.
- Tech: **Python, scikit-learn, NumPy, Pandas, Linear Regression, XGBoost, Streamlit, Git**

## BANGALORE HOME PRICE PREDICTOR | [GITHUB](#) | [LIVEDEMO](#)

Jul 2025

- Built ML model to predict Bangalore home prices; achieved  $R^2 = 0.845$ ,  $MAE \approx 16.6$  Lakhs.
- Created Flask API, integrated responsive frontend (HTML/CSS/JS), deployed on AWS EC2 for global access.
- Tech: **Python, scikit-learn, Flask, AWS EC2, JavaScript, HTML/CSS**

## SKILLS

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- **Programming Languages** : Python, C++, Java, HTML, CSS, JavaScript, SQL
- **Machine Learning & Deep Learning.** : Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow/Keras, PyTorch, Neural Networks, Transformers (DistilBERT), LSTM
- **NLP & Computer Vision** : Text & Image Processing, Embeddings, Tokenization, Classification Models
- **Deployment & Tools** : Streamlit, Flask, Gradio, AWS (EC2), Hugging Face Spaces, Git & GitHub, Jupyter Notebook, Google Colab
- **Soft Skills** : Problem Solving, Team Collaboration, Fast learner, Adaptability

## CERTIFICATION

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- **Machine Learning Specialization** | (Andrew Ng, DeepLearning.AI, Coursera) **Nov 2025**

## ACHIEVEMENTS

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- **Dean's List (All Semesters)** – Maintained First Class GPA (3.89/4.00) consistently until 4th semester
- **Winner – Idea Pulse 2025** – Secured 1st place in university-level innovation challenge
- **Top 5 Finalist – CodeQuest 2024** – Ranked among the top 5 in a competitive coding challenge

## REFERENCE

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### Dr. UdayaWijenayake

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