



Shanilka Haturusinghe

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I am a recent graduate in Computer Science specializing in Artificial Intelligence from the University of Kelaniya, achieving a 4.0 GPA. With a strong foundation in machine learning, statistical modeling, and MLOps and I am well-versed in software engineering best practices.

EDUCATION

- **Bachelor of Science Honours in Computer Science Degree (Specialization in A.I)** *March 2020 – October 2024*
Faculty of Computing and Technology, University of Kelaniya, Sri Lanka. **GPA: 4.0 / 4.0**
- **G.C.E Advanced Level Examination (Maths Stream)** *2018*
Results: Com.Maths-A, Physics-B, Chemistry-B (English Medium) *School: Royal College, Colombo 07*
- **G.C.E Ordinary Level Examination** *2015*
Results: 9 A's, (English Medium)

EXPERIENCE

- **University of Kelaniya**
Demonstrator *February 2025 - Present*
 - Teaching Assistant on Subjects : CSCI 22082 - Object-Oriented Programming — II, DSCI 32012 - Advanced Database Applications, AINT 32012 Digital Image Processing and Computer Vision
 - **Tools & technologies used:** Python, PL/SQL (Oracle XE), Java Spring Boot, MATLAB
- **Embla Software Innovation (Pvt) Ltd**
Intern - Software Engineer *October 2023 - April 2024*
 - Contributed significantly to the development of the Scrapbook Report feature within the Embla Family Treasures application. This feature enables users to create personalized scrapbooks with various customizable page designs. Key functionalities included: opening the Scrapbook from the menu, presenting unique templates with editable pages, and allowing users to customize text and photos within the scrapbook pages.
 - **Tools & technologies used:** C#, Angular 9, .NET Core, FastReport, TypeScript, JavaScript, Figma, Jira and Bitbucket.
- **Xemplar Pte. Ltd**
Intern - Software Developer *September 2022 - May 2023*
 - Developed front-end (Angular) and back-end (Laravel) functionalities for the CricketChampX App.
 - Developed a License Plate Detection project using Python and TensorFlow for a proof of concept.
 - Implemented the Chat Feature for the IFAWPCA mobile App, leveraging React Native and Firebase.

SKILLS

AI/Data Science: Python, PyTorch, Keras, sklearn, NumPy, Pandas, Matplotlib, HuggingFace, LangChain, spaCy, NLTK, Unsloth
Web: React, Angular, ASP.NET, NodeJS, Flask
Databases: MS SQL Server, PostgreSQL, MongoDB, Oracle DB XE, FAISS Vector Database
Programming: Java, C#, JavaScript
Infrastructure: Google Cloud Platform, Vertex AI
Tools: Git, Docker

PUBLICATIONS

Subasa - Adapting Language Models for Low Resourced Offensive Language Detection in Sinhala
Shanilka Haturusinghe, Tharindu Cyril Weerasooriya, Christopher Homan, Marcos Zampieri, Sidath Ravindra Liyanage
In Review (NAACL Student Research Workshop (SRW) 2025)

EXTRA CURRICULAR

• Huawei Seeds for the Future - 2023

Team Leader for Team Sri Lanka at Huawei Seeds for the Future - 2023

- I was selected as one of only four top university students from a highly competitive pool, earning the opportunity to visit China for the prestigious Huawei Seeds for the Future 2023 program.
- Received mentorship from top industry experts on cutting-edge technologies including 5G, AI, Cloud Computing, and Digital Power.
- Participated in the Global Tech4Good competition, honing leadership, problem-solving, and entrepreneurship skills.

AWARDS

• Google Cloud Research Credit \$1000

Google

PROJECTS

• Subasa: Adapting Language Models for Low Resourced Offensive Language Detection in Sinhala

AI/NLP Research Project

- Developed Subasa-XLM-R, Subasa-Llama, and Subasa-Mistral models by fine-tuning pre-trained language models (XLM-R, Llama, Mistral) with task-specific strategies for offensive language detection in Sinhala.
- Evaluated model performance on benchmark datasets, demonstrating superior results compared to baseline models, and studied generalization to low-resourced languages.
- **Tools & technologies used:** PyTorch, Hugging Face, LangChain, Unsloth, Google Colab, Google Cloud Compute Engine

• Real-Time Facial Recognition System for Age and Gender Detection

Deep Learning Development Project

- Developed CNN models for age and gender detection, integrated into Android and web applications for real-time predictions. Backend implemented with FastAPI, and frontend built using React.
- Deployed system using TensorFlow for model inference and integrated a model-serving pipeline with preprocessing. Ensured real-time interaction through web and mobile interfaces.
- **Tools & technologies used:** Python, TensorFlow (+ TF-Lite, TF-Serving), React, Android Studio, Kotlin, Heroku, FastAPI, Pydantic

AI Real-Time Fashion Recommendation System

Machine Learning/Data Science Development Project

- Implemented a real-time recommender system using the 4-stage architecture (candidate generation, filtering, ranking, re-ranking)
- Developed a two-tower neural network model with separate encoders for user queries and item candidates, using SentenceTransformers for generating dense embeddings
- Engineered feature pipelines to process and transform raw user interaction data into feature groups in Hopworks Feature Store
- Built offline pipelines for computing and storing item embeddings in Hopworks vector index for efficient similarity search
- Implemented ranking stage using CatBoostClassifier to score candidate items based on rich feature sets from the feature store
- Created training pipelines for both the two-tower model and ranking model, storing trained models in Hopworks Model Registry
- Deployed the system using MLOps best practices with Hopworks AI Lakehouse, leveraging GitHub Actions for automated pipeline execution
- **Tools & technologies used:** Python, PyTorch, Pandas, SentenceTransformers, CatBoost, Hopworks AI Lakehouse (Feature Store, Model Registry, Vector Index), GitHub Actions, FastAPI

REFERENCES

Dr. S. R. Liyanage

Senior Lecturer.

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Faculty of Computing and Technology,
University of Kelaniya.

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