Chalani Nadeesha

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SUMMARY

Passionate and detail-oriented Software Engineering and AI/ML enthusiast with hands-on experience in building intelligent systems, backend development, and data-driven applications. Proficient in Python, Java, C, JavaScript, HTML, CSS, React.js, Node.js, and Flask, with strong skills in machine learning, deep learning, and computer vision using Scikit-learn, TensorFlow, PyTorch, Pandas, and OpenCV. Experienced in working with MySQL and MongoDB databases, and familiar with Git/GitHub, Jupyter Notebook, Wireshark, Power BI, Docker, and AWS (Basic). Adept at data preprocessing, model training and evaluation, API integration, and applying Agile (Scrum) methodologies to deliver scalable, real-world solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, HTML, CSS, React.Js, Node.Js, Flask

Deep Learning Frameworks: TensorFlow, PyTorch, Keras,

Database: Mongo DB, MySQL

Libraries & Tools: Numpy, Pandas, Scikit-learn, OpenCV, Git/GitHub, Jupyter Notebook, Power BI, Docker, AWS(Basic)

Other: Data Visualization, Data Pre-processing, Model Training and Evaluation, API Integration, Agile Methodology (Scrum).

PROJECTS

Happy Path – Learning Management System for Down syndrome Children ⌂   Jan 2025 – Present
Web Application   *Python, React, Type Script*
- Built backend of an assistive app for children with Down syndrome, integrating an AI-based emotion detection model with Flask API.
- Trained and optimized the model using Python, OpenCV, and deep learning for real-time predictions.

Emotion Recognition System ⌂   Jan 2025 – July 2025
Natural Language Processing   *Python, Flask, Pandas*
- Developed an AI-based emotion recognition system using computer vision and deep learning to accurately detect and classify expressions in real time.

Sri Lankan Cricket Squad Selection Using ML ⌂   April 2025 – September 2025
Machine Learning   *Python, Flask, Pandas, Next.js*
- Designed an ML system for optimal player selection using regression models and feature engineering; developed the front-end interface.

VOLUNTEER EXPERIENCE

Leo Club of SLTC   Sri Lanka Technology Campus
Club Secretary , Director   *July 2023 – June 2025*
- Managed communications, events, and documentation.
- Achievements at A2Con'25: Best Administered Club (1st RU), Most Outstanding Secretary (2nd RU), District Contest Excellence (1st RU)

AIESEC in SLTC   Sri Lanka Technology Campus
Active Member and Leadership Board Member for OGT Function   *2023 – 2024*
- Organized and led Outgoing Global Talents (OGT) programs, coordinating teams and ensuring successful execution.

EDUCATION

Sri Lanka Technology Campus (SLTC)   Meepe, Padukka
BSc (Hons) in Software Engineering   *Current GPA:3.25/4.00*

Gothami Balika Vidyalaya   Colombo 10
G.C.E.Advanced Level Examination   *2020*

CERTIFICATIONS

• Oracle Cloud Infrastructure 2025 Generative AI Professional

• Oracle Cloud Infrastructure 2025 AI Foundations Associate

• Oracle Cloud Infrastructure 2025 Certified Developer Professional

• Oracle Cloud Infrastructure 2025 Certified DevOps Professional

• Kaggle - Intro to Machine Learning

• Kaggle - Intro to Deep Learning

REFERENCES

Mr. Hasitha Gunasekara   Senior Windows Engineer
London Stock Exchange Group   *Tel: +94 77 744 4773*

Ms.Shermila Serasinghe   Assistant Lecturer, Faculty of Computing and IT
Sri Lanka Technology Campus   *Tel: +94 70-552-8400*