Chathuri Nirosha

🌐 My Portfolio
BSc (Hons) in Software Engineering
Sri Lanka Technology Campus, Sri Lanka

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SUMMARY

Software Engineering undergraduate passionate about developing intelligent systems and exploring innovations in Machine Learning and UI/UX design. Seeking an internship in AI/ML or Software Engineering to apply academic knowledge, design practical solutions, and contribute to impactful projects while gaining valuable industry experience.

EDUCATION

- **Sri Lanka Technology Campus, Meepe, Sri Lanka** — *CGPA: 3.15*
  BSc (Hons) in Software Engineering — 2022-Present
- **Gothemi Balika Vidyalaya** — *2020*
  G.C.E.Advanced Level Examination — Colombo 10

PROJECTS

- **Empathetic Virtual Companion for Real-Time Emotional Support (MoodMate)**
  Technology Used: Python, TensorFlow, OpenCV, Unity, MongoDB, Flask.
  - This system used CNN and RNN models with TensorFlow and OpenCV for facial and voice expression analysis, featuring and interactive virtual pet avatar interface.
  - Developed voice recognition ML model to detect emotional tone in speech.
  - Designed the wireframe and user interface layout to ensure an intuitive and emotionally engaging user experience.View Figma Prototype

- **Sri Lankan Cricket Squad Selection Using ML**
  Technology Used: Nextjs, Python, RandomForest, Pandas, Scikit-learn.
  - Designed a prediction system for optimal player selection based on historical performance and match conditions.
  - Designed the wireframe and user interface to visualize player data, prediction results, and team selection workflow effectively. View Figma Prototype

- **Authentication System**
  Technology Used : Python, Flask, SQLite
  - Developed a secure Flask-based authentication system with SQLite, implementing password hashing and session management to prevent security vulnerabilities.

- **Emotion Detection model**
  Technology Used : 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.

TECHNICAL SKILLS AND INTERESTS

Programming Languages –: Python, Java, C, JavaScript, HTML, CSS, React.js, Node,js, Flask
Libraries :Scikit-learn, TensorFlow, PyTorch, Pandas, OpenCV
Web Dev Tools: Nodejs, VScode, Git, Github
Frameworks: ReactJs
Databases:MongoDb, Relational Database(mySql)
Designing tools:Figma, Canva, Adobe Photoshop
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: AI/ML Engineering, UI/UX Design, Web Design and Development
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

VOLENTEER EXPERIENCES

- **Leo Club Of SLTC** Club Director and Coordinator — *2023 - 2025*

  - District President Appreciation – Club Coordinator, Leoistic Year 2024/25 (Leo District 306 A2 – A2Con'25)
  - Most Outstanding Project Secretary First Runners-up – Leo Club of SLTC, 2023/24
  - Directed and contributed to 10+ community projects

- **AIESEC in SLTC** Active Member and Leadership Board Member for OGV Function — *2023 - 2024*

  - Organized and led Outgoing Global Volunteer (OGV) programs, coordinating teams and ensuring successful execution.

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Generative AI Professional**
  October-2025   Online
- **Oracle Cloud Infrastructure 2025 AI Foundations Associate**
  October 2025   Online
- **Oracle Cloud Infrastructure 2025 Certified Developer Professional**
  October 2025   Online
- **Intro to Machine Learning-(Kaggle)**
  July 2025   Online
- **Intermediate to Machine Learning-(Kaggle)**
  July 2025   Online
- **Intro to Deep Learning-(Kaggle)**
  July 2025   Online
- **UI/UX for Beginners - (Greate Learning Academay)**
  April 2024   Online

REFERENCES

- **Mr. Asitha Wijewardhane** Senior Lecturer
  Faculty of Computing and IT , Sri Lanka Technology Campus, Sri Lanka.
  - Email : asitha.w@sltc.ac.lk.
  - Phone : +94-70-476-2371

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