

Vichaksha Viduranga Geekiyanage

✉ vichakshaviduranga@gmail.com | 📞 +94 77 1121545 | 🔗 linkedin/Vichaksha | 🌐 github.com/devvicha | 📁 portfolio

SUMMARY

Final year Electronic & Computer Science undergraduate focused on Java, ML, IoT, and software engineering. Experienced in fullstack development, NLP research, and technical leadership (IEEE). Seeking an internship to apply modern technologies to real-world challenges.

SKILLS

Programming	Java, JavaScript/TypeScript, Python, C, SQL, HTML/CSS
Web/Mobile	React, Kotlin, Firebase
Backend/APIs	Spring Boot, Node.js, REST
Databases	MySQL, MongoDB, Firebase
Embedded/IoT	Microcontrollers, ESP32, RFID, Arduino, Sensors
AI/ML & NLP	Strong foundation in statistics & linear algebra; PyTorch, TensorFlow, Hugging Face, LangChain, Whisper, LoRA, PEFT, Elasticsearch; tokenization, embeddings, transfer learning, evaluation metrics
Tools	Git, Jupyter, Linux, Spring Initializr

EDUCATION

BSc (Hons) in Electronic & Computer Science *Expected Jan 2026*
University of Kelaniya
GPA(current): 2.79
Relevant coursework: Machine Learning, Java, Data Structures, Embedded Systems

G.C.E. Advanced Level – Physical Science Stream *2020*
Nalanda College, Colombo 10
Results: Combined Mathematics (B), Chemistry (B), Physics (C)
G.C.E. Ordinary Level: 8A's, 1B *2015*

PROJECTS

Sinhala Lyrical ASR (NLP) *Whisper, LoRA, Elasticsearch* *2025*
– Fine-tuned Whisper-large-v2 with LoRA for Sinhala lyric transcription; captured harmonies in heavy metal music.
– Applied transfer learning, parameter-efficient tuning, token forcing; built 30s chunking + adapter pipeline.
– Integrated Elasticsearch for lyric search and copyright detection. **GitHub:** [repo/Whisper_fine_tuning](#)

SmartForce HR Management System *Spring Boot, React.js, MongoDB* *Dec 2024*
– Full-stack HRMS with microservices, role-based access, payroll/leave/asset management.
– Deployed with CI/CD; tested via Swagger, Postman, Docker. **GitHub:** [repo/backend](#)

Netflix Clone *Java Spring Framework, MySQL, HTML/CSS* *Feb 2024*
– Built a video streaming platform in a monolithic Spring architecture.
– Implemented user authentication, video catalog, and streaming simulation. **GitHub:** [repo/Netflix](#)

EXPERIENCE

Secretary, IEEE Industrial Electronics Society SB Chapter – University of Kelaniya *2024*
– Organized events/workshops for 100+ peers, managed IEEE global communication.

Teller & Administrative Co-helper, People’s Bank – Nugegoda City Branch & RHO2021

– Assisted branch operations and transactions; supported compliance and documentation.

– Improved loan processing by maintaining accurate records.

ADDITIONAL PROJECTS

IoT Parking Space ManagementESP8266, Firebase, Google Maps API2023

– Automated parking solution with sensors, NodeMCU, Firebase real-time DB.

– Integrated QR code entry/exit and Google Maps navigation. **GitHub:** [repo/EasyPark](#)

Sign Language DetectionTensorFlow/Keras, OpenCV, Roboflow2023

– Developed a Python-based system to detect and classify sign language gestures in real time.

– Preprocessed dataset with Roboflow and trained a CNN model using TensorFlow/Keras + OpenCV.

– Achieved accurate recognition through optimized image preprocessing and a fine-tuned deep learning model.

– Applied computer vision + ML to enhance accessibility and human–computer interaction. **GitHub:** [repo/SignLanguageDetection](#)

LEADERSHIP & VOLUNTEERING

Webinar Speaker & Organizer, ECSC TechnoSymphony2022

– Delivered a webinar on **Machine Learning and Industrial Automation** to 100+ participants.

– Engaged students in applied ML concepts and career guidance.

Webinar Host, IEEE Computer Society SB Chapter – UOK2023

– Facilitated discussion between speakers and participants, ensuring smooth event flow.

Coordinator, IEEE Robot Battle UOK2024

– Managed robotics competition with 200+ participants; secured IEEE sponsorships.

Team Lead, AIESEC IGV Charity Project2023

– Led international volunteers for community development.

Content Writing Lead, ECSC UOK2023

– Authored and edited technical/engineering articles.

CERTIFICATIONS

- Makerspace Training – American Center Colombo (2025)
- Prompt Engineering – Cognitive AI Class (2024)

LANGUAGES

English (Fluent), Sinhala (Native)

REFERENCES

Prof. A.L.A.K. Ranaweera
Ph.D.(Kyung Hee Uni, South Korea), B.Sc.(Uni. of Kelaniya, Sri Lanka), MIEEE, MURSI, Department of Physics and Electronics, UOK
arunaran@kln.ac.lk
Phone: +94777179201

Dr. W.A.C. (Chinthanie) Weerakoon
Ph.D. (Computer Science, University of Moratuwa); M.Sc. (Computer Science, University of Colombo); B.Sc. (Special) Hons in Statistics and Computer Science, University of Kelaniya,
chinthanie@kln.ac.lk
Phone: +94777194802