SUBHAGA HANSAMANA

DATA SCIENCE & AI INTERN

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PROFESSIONAL SUMMARY

Final-year **Data Science undergraduate** skilled in **Machine Learning, AI, and Computer Vision.** Experienced in building real-world solutions using **Python, TensorFlow, OpenCV, Flask, and Power BI.** Recently expanding expertise in **Generative Adversarial Networks (GANs) and Large Language Models (LLMs)** to develop advanced AI-driven applications. Strong leadership background with proven project management and teamwork skills.

TECHNICAL SKILLS

- Programming: Python, R, SQL
- Frameworks: TensorFlow, Keras, Scikit-learn, Flask
- Data Analysis & Visualization: Power BI, Excel, Fabric, Pandas, NumPy, Matplotlib, Seaborn
- Computer Vision: OpenCV, Image & Video Processing
- Other Tools: Git, Google Maps API, IoT Modules (GPS, Camera)

EDUCATION

- **BSc (Hons) in Data Science**
  SLTC Research University (2022–2026 │**Current GPA: 3.51**)
- **G.C.E. Advanced Level (A/L) – (physical science)**
  Dharamaraja College-Kandy

PROJECTS

- **GuardianEye – AI Crime Detection System (FYP) –** Real-time crime detection using YOLOv5 & CNN (89% accuracy) with GPS-based police alert.
- **CycleSense │Menstrual Abnormality Checker –** Flask web app using Random Forest (96% accuracy) for menstrual health prediction.
- **Sentiment Analysis Tool –** NLP model with NLTK & Scikit-learn (85%+ accuracy) for sentiment classification.
- **Face Recognition Project –** Face detection & recognition using Python and OpenCV.
- **Legal Assistant (Group Project) –** Helped integrate LLM for a Streamlit-based Sri Lankan business law assistant.

ADDITIONAL INFORMATION

- **Languages:** English, Sinhala
- **Certifications:** NVQ Level 4 – ICT Technician(Vocational Training Authority│2021 – 2022), Web Development Certificate Course SLTC(2021)
- **Leadership & Other Experience:** Worked as an announcer and presenter for Jathika Rupavahini(SLRC) programs. Helped in the Neurodiversity & Autism Awareness Campaign. Served as Vice President of SLTC Media Unit, President of HOPE Charity Club, and Second Vice President of SLTC Leo Club (2023/24). Also, played rugby for SLTC.

REFERENCES

Dr. Sanika Wijayasekara
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