

# Nilakshan Raveendran

nilaksh2001@gmail.com | +94 766965785 | Portfolio/nix

linkedin.com/in/nilakshanraveendran | github.com/NilakshanRaveendran

## Experience

**UI/UX Designer**, Win Consult (win-consult.no) Jan 2025 - Current

- Designed and refined the end-to-end user experience for the **A-Z App**, an all-in-one platform developed for Sri Lanka under a Norway-based company.
- Created mobile-first, responsive layouts in Figma, ensuring consistency across iOS and Android platforms.

**App Tester**, Win Consult (win-consult.no) Jan 2025 - Current

- Performed end-to-end testing of the **A-Z App** across iOS and Android platforms, ensuring stability before public release
- Contributed to quality assurance processes that improved app reliability and reduced post-release issues

**Front-End Developer**, Softcox Jun 2024 - Mar 2025

- Built and optimized responsive web and mobile interfaces using **React, React Native, and Tailwind CSS**
- Translated Figma wireframes into pixel-perfect, reusable components with consistent design systems

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, SQL

**Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, OpenCV

**Deep Learning & NLP:** Transformers, CNNs, RNNs

**Databases:** PostgreSQL, MySQL, SQLite, MongoDB

**DevOps & Cloud:** Docker, Kubernetes, AWS, Jenkins, Linux, CI/CD

**Tools:** GitHub, IDLE, Google Colab, Jira, Figma, IntelliJ, Postman, Visual Studio Code

## Education

**Uva Wellassa University**, B.Sc(Hons) in Computer Science and Technology Present

- GPA: 3.5 (Up to 4 semesters)

**T/Orr's Hill Vivekanandra College**, G.C.E(A/L) Physical Science (Non-Stream) 2020

- 1B, 2C, Z-Score - 0.9563

## Projects

**ChatGPT-2 Architecture**, Implemented GPT-2 Transformer model from scratch github.com/repo  
(TensorFlow, Attention Mechanism, NLP, Deep Learning)

- Implemented the **GPT-2 transformer architecture** from scratch using **TensorFlow**, including multi-head self-attention and positional embeddings
- Trained on a custom text corpus to generate coherent sequences, demonstrating capabilities in **text completion and language modeling**
- Applied techniques such as **layer normalization, dropout, and Adam optimizer** to improve training stability
- Gained hands-on experience with **NLP, deep learning, and generative AI models**, reinforcing understanding of large language model internals

**Mobile Price Prediction By ANN**, Built an Artificial Neural Network (ANN) model to predict smartphone price ranges from specifications (Python, TensorFlow/Keras, Machine Learning, Data Preprocessing) [github.com/repo](https://github.com/yourusername/repo)

- Developed an **Artificial Neural Network (ANN)** model in **TensorFlow/Keras** to predict smartphone price ranges from specifications
- Performed **data preprocessing, feature scaling, and train-test split** to prepare dataset for model training
- Tuned hyper parameters (hidden layers, activation functions, optimizers) to enhance prediction accuracy
- Achieved reliable classification of price categories

**SMS Spam classification using NLP**, Built ML model with Scikit-learn for text classification (NLP, NLTP, TF-IDF, Naive Bayes) [github.com/repo](https://github.com/yourusername/repo)

- Built a machine learning model to classify SMS messages as **Spam or Ham (Not Spam)** using **Python and Scikit-learn**
- Applied **text preprocessing techniques** such as tokenization, stop-word removal, and TF-IDF vectorization
- Trained and evaluated multiple classifiers (Naive Bayes, Logistic Regression, SVM) to compare performance
- Achieved high accuracy in spam detection, demonstrating skills in **NLP, text classification, and applied machine learning**

**Sentiment Analysis(Tweets about US Airlines)**, Classified US Airline tweets using NLP (TF-IDF, Naive Bayes, LSTM) [github.com/repo](https://github.com/yourusername/repo)

- Performed **sentiment classification** on tweets about US Airlines to analyze customer opinions (positive, negative, neutral)
- Applied **data cleaning and preprocessing** including stop-word removal, stemming/lemmatization, and tokenization
- Used **TF-IDF and word embeddings** for feature extraction to represent textual data
- Trained and evaluated models such as **Logistic Regression, Naive Bayes, and LSTM** to compare performance
- Demonstrated proficiency in **NLP, text mining, and social media analytics** with real-world datasets

**Jarvis: Personal AI Voice Assistant**, Python, LiveKit, Google Gemini (Personal) [github.com/repo](https://github.com/yourusername/repo)

- Developed a real-time **AI voice assistant (Jarvis)** using Python, LiveKit agents, and Google Gemini 2.0 Flash model
- Integrated **noise cancellation**, voice streaming, and conversational LLM features for natural interaction
- Implemented modular instruction handling for dynamic responses using **AGENT\_INSTRUCTIONS** and **AGENT\_REPLY**
- Enhanced user experience with **voice synthesis, prompt engineering**, and low-latency AI replies

## Other Projects

Smart Internship Platform, Website for Daycare provider, Construction website

## Leadership & Volunteering

**FOSS Community Design Team**

**Team lead**

Free and Open Source Community at Uva Wellassa University.

## Referees

**Prof. E.M.U.W.J.B. Ekanayake**, Senior Lecturer  
Department of Computer Science and Informatics, FAS, UWU

[ekanayake@uwu.ac.lk](mailto:ekanayake@uwu.ac.lk)

**Mr. H.P.D.P. Pathirana**, Lecturer (Probationary)  
Department of Computer Science and Informatics, FAS, UWU

[dimuth@uwu.ac.lk](mailto:dimuth@uwu.ac.lk)