



# DILUK UDAYAKANTHA

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## EXPERIENCE

### **Freelance Flutter Developer**

**Nov 2024 – Present**

- Contracted by a startup serving international clients to develop Flutter-based mobile applications.
- Contributed to multiple AI-integrated systems, focusing on delivering seamless mobile experiences.
- Responsible for end-to-end mobile development, including UI implementation, API integration, and in-app backend functionality.
- Worked closely with AI/ML engineers to integrate machine learning models and AI features within mobile interfaces.
- Involved in crafting custom UI/UX designs to meet client-specific branding and user experience needs.

### **SILICON RADON NETWORKS – KANDY**

#### **Intern Flutter Developer**

**Apr 2024 – Nov 2024**

- Responsible for developing custom tailored mobile applications.
- Developed MVP mobile applications for Restaurant, Salon and E channeling sectors.
- Developed and maintained RESTful APIs to support seamless communication between the frontend and backend systems.
- Utilized version control systems like Git to ensure code quality and collaboration efficiency.

## EDUCATION

### **CINEC Campus, Malabe**

**Jun 2021 - Present**

Bachelor of Science (Hons) in Software Engineering; Cumulative GPA: 3.73 / 4.0

### **Dharmaraja College, Kandy**

**Jan 2010 - 2019**

Passed G.C.E (A/L) Examination in Physical Science, in 2019

Passed G.C.E (O/L) Examination, in 2015

## PROJECTS

### **AI Based Virtual Skin Care Assistant**

**Technologies:** Flutter, Dart, Hive, Provider, Firebase, Cloudinary, Machine Learning

- Developed a virtual skincare assistant that analyzes users' skin conditions daily and provides personalized improvement suggestions.
- Integrated a trained ML model via API call to assess skin health based on daily selfie uploads, enabling real-time condition tracking.
- Provided AI-driven recommendations for skincare products, dietary choices, and skincare tips tailored to individual needs.
- Implemented a history feature, allowing users to review past skin condition assessments and track their progress over time.

### **Gymnai – AI Based Fitness Trainer**

**Technologies:** Flutter, Dart, Provider, Google MLKit

- Developing Gymnai, an AI-driven fitness trainer mobile application using Flutter, designed to detect and correct users' exercise posture in real-time.
- Implemented voice guidance to guide users during exercises for better usability.
- Integrated Google MLkit for posture recognition and analysis, providing instant feedback and suggestions to improve exercise form.
- Designing a session report feature to summarize user performance after each exercise.
- Focusing on seamless device setup and camera integration for an intuitive and user-friendly experience.

### **Citilytics - Image Classification Mobile Application**

**Technologies:** Flutter, Dart, Firebase, Tensorflow Lite

- Developed Citilytics, a real-time object detection and image classification mobile application using Flutter, designed to identify vehicles with advertisements.
- Integrated TensorFlow Lite for efficient object detection, enabling the app to capture and store images of identified vehicles locally.
- Implemented Google Drive integration, allowing users to upload captured images seamlessly after logging into their Google accounts.
- Provided advanced customization features, including adjustable confidence thresholds and support for user-provided TensorFlow Lite models, enhancing usability and adaptability.

### **CloseCart - Location Based Advertisements Platform (Ongoing)**

**Technologies:** Flutter, Dart, ExpressJS, MongoDB, Machine Learning, Open Street Maps

- Developing CloseCart, a web based system using the MERN stack, designed for small business owners to publish and manage offers and discounts.
- Building a Flutter mobile application that utilizes geofencing and real-time location tracking to help users discover the best nearby deals.
- Integrating an AI powered recommendation system to personalize offers based on user preferences and behavior.
- Implementing an insights dashboard, enabling shop owners to track offer performance and customer engagement through real time analytics.

### **AizoTF – TFLite Model Checking App**

**Technologies:** Flutter, Dart, TensorFlow Lite

- Developed AizoTF, a mobile application designed to test TensorFlow Lite machine learning models for image classification and object detection.
- Implemented a user-friendly interface to upload and validate TFLite model files and label files, ensuring seamless testing of model compatibility.
- Optimized for SSD MobileNet models, providing real-time inference and evaluation of model performance.
- Designed with extendability in mind, allowing future support for additional model architectures and configurations.

## **EXTRACURRICULAR**

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**Director** - CINEC Student Association (2023 – 2024)

**President** - Teck Strike IT Club of CINEC Campus (2023 – 2024)

**Web Master** - CINEC IEEE Student Branch (2023 - 2024)

**Designer** - IEEE SLSAC (2024 – 2025)

## SOFT SKILLS

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Problem Solving  
Collaboration & Teamwork  
Attention to Detail  
Creativity

## TECHNICAL SKILLS

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**Programming Languages:** Dart, Python, Java, JavaScript  
**Frameworks & Libraries:** Flutter, TensorFlow Lite, Provider, Bloc  
**Backend & Databases:** Firebase, SQLite, Hive, MySQL, MongoDB  
**Tools & Platforms:** Git, GitHub, Cloudinary  
**Other Technologies:** Google Drive API, OpenStreetMap, REST APIs, Payment gateways

## INTERESTED AREAS

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Flutter Mobile Application Development  
AI Integrated Mobile Applications  
AI Agent Development

## REFERENCES

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**Ms. Ramya Dharshani I. Vithanage,**  
Instructor in English,  
University of Peradeniya,  
0768988841

**Ms. Suranji Nadeeshani,**  
Head of Department,  
CINEC Campus - Malabe,  
077986687

**I do hereby certify that the above particulars are true and accurate to the best of my knowledge.**

..... 2025/04/23 .....

Date



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Signature