# PINIL DISSANAYAKA

INTERN - MACHINE LEARNING ENGINEER

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## SUMMARY

Motivated Undergraduate Intern - Machine Learning Engineer with a robust foundation in Python, R, and machine learning frameworks such as TensorFlow, PyTorch, and scikit-learn. Experienced in developing data-driven solutions and translating complex datasets into actionable insights. Proficient in data preprocessing, statistical analysis, and model deployment. Adept at collaborating within cross-functional teams and passionate about continuous learning in the dynamic field of Machine Learning.

## EDUCATION

06/2021 - present
**BACHELOR OF SCIENCE (HONS) COMPUTING AND INFORMATION SYSTEMS**
**Sabaragamuwa University of Sri Lanka | Belihuloya**

02/2009 - 09/2020
**GCE ADVANCED LEVEL**
**President's College | Sri Jayawardhanapura - Kotte**

## COURSES & CERTIFICATES

- Google Data Analytics Professional Certificate - **Coursera**
- Mathematics for Machine Learning & Data Science Specialization- **DeepLearning.AI**
- SQL for Data Science - **UCDAVIS**
- Python for Deep Learning and Artificial Intelligence - **Udemy**
- TensorFlow - Keras Bootcamp - **OpenCV University**
- IBM Data Science Professional Certificate - **Coursera**

## SKILLS

- **Languages**: Python (Advanced), R, Java, C, C++, PHP, HTML, CSS
- **Databases**: MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, Oracle Database, Neo4j
- **Libraries**: Numpy, Pandas, SciPy, Statsmodels, Matplotlib, Seaborn, Plotly, Shiny, NLTK, Scikit-learn, XGBoost, OpenCV, MLflow
- **Frameworks**: TensorFlow, Keras, PyTorch, LightGBM, LangChain, LangGraph, Scrapy, Flask, FastAPI, Laravel
- **Tools & Technologies**: GitHub, Git, Docker, Power BI, Apache Airflow, AWS

## ACHIEVEMENTS

- **IEEE Innovation Nation Sri Lanka 2023**: Developed Glova, an AI-powered skincare app, selected for showcasing at the IEEE Innovation Nation Sri Lanka 2023.
- **TADHack 2023:** Secured 1st runner-up in the TADHack competition as part of Team Zyndicate.
- **Data Odyssey 2024:** Achieved the position of 2st runner-up at the Data Odyssey inter university competition.

## PROJECTS

09/2024 - present **MULTIMODAL RAG SYSTEM: INTEGRATING TEXT, TABLES, AND IMAGES FOR ENHANCED DOCUMENT RETRIEVAL**

- **Technologies** : Python, LangChain, LangGraph, Flask
- Processed diverse document formats, including text, tables, and images, leveraging the unstructured.io framework for comprehensive data extraction.
- Implemented a querying system that retrieves relevant data across formats and generates detailed responses, seamlessly integrating text, tables, and images for enriched user interactions.

08/2024 - 09/2024 **DEVELOPED OF ELECTION INSIGHT APP**

- **Technologies** : Python, LangChain, LangGraph, Unstructured, Transformers
- Developed an AI-powered Election Insight App utilizing LangChain and Large Language Models (LLMs) for real-time manifesto analysis, fact-checking, and voter insights.

06/2024 - 08/2024 **DEVELOPED AUTOMATED PADDY DISEASE CLASSIFICATION SYSTEM**

- **Technologies** : Python, Flask, TensorFlow, Keras, OpenCV
- Developed an advanced automated system for the classification of paddy crop diseases using state-of-the-art image processing and deep learning techniques. The system is capable of identifying up to 10 different diseases.

09/2023 - 02/2024 **DEVELOPED OF GLOVA: REVOLUTIONIZING SKINCARE WITH AI-POWERED PERSONALIZATION**

- **Technologies** : Flutter, Python, Flask, TensorFlow, Keras, OpenCV, LangChain
- Developed for the IEEE Innovation Nation Sri Lanka 2023, Glova offers tailored skincare recommendations based on unique skin types and conditions.

09/2023 - 11/2023 **DEVELOPED AGRICONNECT, AN AWARD-WINNING MOBILE APPLICATION**

- **Technologies** : ReactJS, Python, Flask, TensorFlow, Keras, OpenCV, LangChain, scikit-learn
- Designed and implemented a Crop Recommendation Tool using AI algorithms, providing personalized crop suggestions based on location, soil, and climate conditions to optimize yield and prevent overproduction.

## REFERENCES


**PROF. BTGS KUMARA**

Faculty of Computing,
Sabaragamuwa University of Sri Lanka.
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**DR. LS LEKAMGE**

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