PINIL DISSANAYAKA

INTERN - MACHINE LEARNING ENGINEER

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SUMMARY

Innovative and dedicated AI/ML Engineer Intern with expertise in developing, training, and deploying machine learning models using frameworks like TensorFlow, PyTorch, and scikit-learn. Skilled in Python, data preprocessing, model optimization, and leveraging advanced AI techniques to deliver impactful solutions. Eager to apply strong problem-solving abilities and collaborative skills to cutting-edge AI/ML projects while continuously expanding knowledge in the rapidly evolving field of artificial intelligence.

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, 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, LlamaIndex, Scrapy, Flask, FastAPI, Laravel
- **Tools & Technologies**: GitHub, Git, Docker, Power BI, Apache Airflow, AWS

ACHIEVEMENTS

- **Finalist, IEEE AI-Driven Sri Lanka 2024 –** Selected for developing innovative AI-driven solutions in Sri Lanka president election.
- **2nd Runner-Up, Data Odyssey 2024 –** Awarded for designing the AgriConnect system.
- **Winner, IEEE Innovation Nation Sri Lanka 2023 –** For developing the AI-powered Glova app, which revolutionizes skincare personalization.
- **1st Runner-Up, TADHack 2023 –** For innovative contributions to the AI-powered AgriConnect app.

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
- Designed and developed a system capable of classifying 10+ paddy crop diseases using image processing and CNNs. Improved diagnosis time by 25% and accuracy by 15%.

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

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Sabaragamuwa University of Sri Lanka.
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