PINIL DISSANAYAKA

INTERN – DATA ANALYTICS

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SUMMARY

Motivated Undergraduate Trainee in Data Science 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 data science.

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, spaCy, Gensim, fastText, Scikit-learn, XGBoost, OpenCV, MLflow
- **Frameworks**: TensorFlow, Keras, PyTorch, LightGBM, LangChain, LangGraph, Scrapy, Flask, FastAPI, Laravel
- **Tools & Technologies**: GitHub, Git, Docker, Power BI

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.
- **CodeSprint Participation:** Participated in a Code Sprint organized by the IEEE chapter of IIT.

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PROJECTS

09/2024 – present

MULTIMODAL RAG SYSTEM: INTEGRATING TEXT, TABLES, AND IMAGES FOR ENHANCED DOCUMENT RETRIEVAL

- Developed a cutting-edge multimodal RAG system utilizing advanced AI models and multimodal processing techniques.
- 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.

06/2024 – 07/2024

MEDICAL CHAT-BOT WITH ADVANCED AI CAPABILITIES

- Developed a sophisticated medical chatbot leveraging advanced AI models and natural language processing techniques.
- Utilized the MedQuad dataset featuring over 43,000 real-life patient inquiries categorized into 31 types of medical questions.
- Implemented the Hugging Face PLM2 model for accurate comprehension of diverse medical queries and integrated responses from healthcare professionals.

06/2024 – 08/2024

DEVELOPMENT OF AUTOMATED PADDY DISEASE CLASSIFICATION SYSTEM

- 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, enabling timely and accurate intervention to mitigate potential yield losses of up to 70%.

09/2023 – 02/2024

DEVELOPMENT OF GLOVA: REVOLUTIONIZING SKINCARE WITH AI-POWERED PERSONALIZATION

- Created Glova, a skincare app integrating facial recognition technology and AI for personalized skincare solutions.
- 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

- 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.
- Developed a Marketplace Platform enabling farmers to list produce, negotiate prices, and connect directly with buyers, eliminating intermediaries and ensuring fair compensation.