Pinil Dissanayaka

Data Aanlytics - Intern

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SUMMARY

Results-oriented Data Aanlytics Intern with a proven track record in leveraging advanced analytics to drive business outcomes. Expertise in Python, R, and machine learning frameworks like TensorFlow, PyTorch and scikit-learn. Skilled in end-to-end model development and translating complex insights for impactful decision-making. Strong communicator and collaborator with a passion for staying at the forefront of data advancements.

EDUCATION

- Sabaragamuwa University of Sri Lanka | Belihuloya

  Bachelor of Science (Hons) Computing and Information Systems

  06/ 2021 - PRESENT

- President's College | Sri Jayawardhanapura - Kotte

  02/ 2009 - 09 / 2020

COURCES & 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++, HTML, CSS
- **Databases** : MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, Oracle Database
- **Libraries** : Numpy, Pandas, SciPy, Statsmodels, Matplotlib, Seaborn, Plotly, Shiny, NLTK, spaCy, Gensim, fastText, Scikit-learn, XGBoost, OpenCV
- **Frameworks** : TensorFlow, Keras, PyTorch,, LightGBM, LangChain, Scrapy, Flask, Fast API, Streamlit
- **Tools & Technologies** : GitHub, Git, Docker, Power BI

PROJECTS

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 doctors, nurses, and pharmacists to ensure comprehensive information retrieval. Tailored user interactions based on query context and preferences, enhancing user experience and satisfaction.

Development of Glova: Revolutionizing Skincare with AI-Powered Personalization

- Introducing Glova, a groundbreaking skincare app that has redefined the beauty industry by seamlessly integrating facial recognition technology and artificial intelligence. Developed for the IEEE Innovation Nation Sri Lanka 2023, Glova is set to transform the way individuals approach skincare, offering a personalized and intelligent solution tailored to unique skin types and conditions.

Development of a Sinhala Natural Language Processing Toolkit

- In this project, I undertook the task of creating a comprehensive Sinhala Natural Language Processing (NLP) toolkit from scratch, comprising essential components such as Sinhala stopwords, Sinhala stemming, and a Sinhala word2vec model. This work represents a substantial contribution to the NLP community, specifically for the Sinhala language, and demonstrates my commitment to advancing the field of NLP for underrepresented languages.

Emotion Detection with Text Data using TensorFlow, Keras, LSTM, and BERT

- Emotion detection from text data has gained significant attention in recent years, thanks to the advancements in natural language processing and deep learning techniques. In this project, we have leveraged the power of state-of-the-art technologies such as TensorFlow, Keras, Long Short-Term Memory (LSTM) networks, and BERT (Bidirectional Encoder Representations from Transformers) to build a robust and accurate emotion detection model.

Plant Disease Prediction and Solution Generation System

- In an era of increasing agricultural challenges, I undertook a groundbreaking project to develop a Plant Disease Prediction System, powered by Convolutional Neural Networks (CNN). This system goes beyond mere diagnosis; it also generates solutions to combat plant diseases using Large Language Models (LLM). This holistic approach combines the power of computer vision and natural language processing to revolutionize the agricultural industry.

Crop Recommendation System

- In a world where agricultural practices are becoming increasingly data-driven, I embarked on a project to develop a Crop Recommendation System that harnesses the power of machine learning algorithms to optimize crop selection for farmers. This project aims to empower farmers with actionable insights to enhance crop yield and sustainability.

Coronavirus tweets NLP Text Classification

- In the wake of the global COVID-19 pandemic, the internet became a hub for information, misinformation, and sentiments surrounding the virus. To make sense of this vast pool of data, I undertook a project to develop a deep learning model for classifying Coronavirus-related tweets using Natural Language Processing (NLP) techniques and Long Short-Term Memory (LSTM) neural networks.