

# Pinil Dissanayaka

Data Scientist / Machine Learning Engineer - Intern

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## SUMMARY

Results-oriented Data Scientist/Machine Learning Engineer 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 science advancements.

## EDUCATION

- Sabaragamuwa University of Sri Lanka | Belihuloya  
Bachelor of Science (Hons) Computing and Information Systems  
08/ 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++
- Web and Vizualization : HTML, CSS, Streamlit, Flask
- Data Manipulation : Pandas, NumPy
- Statistical Analysis : SciPy, Statsmodels
- Natural Language Processing : NLTK, spaCy, Gensim
- Data Visualization : Matplotlib, Seaborn, Plotly
- Machine Learning : Scikit-learn, XGBoost, LightGBM
- Deep Learning : TensorFlow, PyTorch, Keras
- Database : MySQL, PostgreSQL, MongoDB
- Prompt Engineering : LangChain
- Image Processing and Computer Vision : OpenCV
- Version Control : GitHub, Git

# PROJECTS

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## 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.

## 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.

## 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.

## TensorFlow-Based Brain Tumor Detection System Using MRI Images

- DeepTumorDetect is an advanced medical imaging solution developed using the powerful TensorFlow framework for the accurate and efficient detection of brain tumors in MRI images. Leveraging state-of-the-art deep learning techniques, this system represents a significant leap forward in the field of medical diagnostics.