

# JANITHA PRATHAPA

**Date of Birth:** 07/04/1996 | **Nationality:** Sri Lankan | **Gender:** Male

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 [Janitha Prathapa](#)

## OBJECTIVES

Ambitious graduate with strong problem-solving and analytical skills, seeking a career opportunity in Data Science, AI/ML, or Python development within a progressive organization. Dedicated to enhancing skills at a global level, while contributing to team dynamics and working towards the organization's growth.

## WORKING EXPERIENCE

### HeHealth Pte. Ltd

*Remote, Singapore*

*AI/ML Engineer - (Oct 2022 – Present)*

*Associate AI/ML Engineer – (Jan 2022 - Oct 2022)*

#### **STD Screening tool**

- Conducted research and developed a CNN-based computer vision model to detect sexually transmitted diseases in male genitals with high accuracy. Implemented algorithms that enable micro-level analysis of experimental results and enhance interpretability of the model through XAI techniques.

#### **Perianal Screening tool**

- Develop a state-of-the-art ViT model for detecting Perianal disorders with high accuracy. Utilized XAI approaches to provide interpretable explanations for model decisions, enhancing system transparency and trustworthiness. Improved model performance through synthetic data generation using GANs, which produced high-quality, diverse training data.

#### **M-pox Screening tool**

- Developed a state-of-the-art CNN-based computer vision model for detecting monkey pox lesions with high accuracy, following extensive research in the field. Additionally, implemented a question-based algorithm to verify the model's results, ensuring robustness and reliability in its predictions.

### Potenza Pvt.Ltd.

*Colombo, Sri Lanka*

*Associate Data Analyst - ( May 2021 – Sep 2021 )*

*Intern Data Analyst – ( Nov 2020 – May 2021 )*

- Developed dashboards for clients and proof of concepts (POCs) in various industry sectors including healthcare, oil and gas, apparel, manufacturing, retail and etc.
- Focused on developing KPIs, strategy development, web analytics, and setting up data analytical tools to transform data into products and generated actionable insights and presented meaningful stories for clients.
- Built predictive dashboards using advanced analytics techniques such as ML and statistical modeling to provide real-time insights and predictions based on historical data.

# EDUCATION

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## **Sri Lanka Institute of Information Technology (SLIIT)**

BSc (Hons) in Information Technology Specializing in Data Science

Jan 2018 – Feb 2022

- CGPA: 3.46 / 4.0
- Grade: Second Class Honors Upper Division

Research: Surveillance based Child Kidnap Detection and Prevention Assistance.

Publication Link : <https://ieeexplore.ieee.org/document/9824093>

Research Grade: A

## RELEVANT COURSEWORK

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- Advance Computer vision
- Deep learning and Machine learning
- Visual Analytics
- XAI (Explainable AI)
- Data Mining
- Data Warehousing
- Data Structures & Algorithms
- Business Intelligence
- Big Data Analytics
- Programming Language and Frameworks

## ACADEMIC PROJECTS

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### **Smart IOT based Sanitizing System** | *Raspberry PI, ML and Deep Learning, Matplotlib, Flask*

- Designed and implemented a IOT based sanitizing system that include detect human hand and dispense a particular portion of sanitize, human and face mask detection, check whether the human body temperature is in the required range, ensure to unlock the doors only if both the sanitizing and face mask criterions are met. This solution utilized to predict sanitizer usage for the next coming months and customer inflow using collected data through the sensors.

### **ViT-based plant disease recognition** | *Python, TensorFlow, Flask*

- Designed and developed a disease recognition system based on leaf image classification. The model was trained to classify images as healthy, early blight, or late blight using TensorFlow, Keras, and the ViT (Vision Transformer) architecture.

### **Content Categorization using NLP Techniques** | *Python, TensorFlow*

- The goal of the project is Content categorization based on their description with Machine Learning and Deep Learning algorithms.

### **Visual Analytics Project** | *Google Analytics, Figma, Power BI, Grafana, Prometheus*

- Recreate a prototype of an existing website based on analyzing customer reviews using Hotjar and Google Analytics. Created a Grafana Dashboard to visualize the system data using Windows exporter and Prometheus for system administrators.

### **Data Warehousing & Business Intelligence Project** | *SSIS, SSDT, SSRS, Microsoft Power BI*

- Cleaned, analyzed, and stored an Australia Crash Dataset to a Data Warehouse using ETL processing. Afterwards SSRS was used to generate reports on a created data cube and a user-friendly dashboard was created to measure data KPIs using Power BI.

### **Driver Drowsiness Detection system** | *OpenCV / TensorFlow / Deep learning / Pygame*

- The objective of this project is to build a drowsiness detection system that will detect that a person's eyes are closed for a few seconds. This system will alert the driver when drowsiness is detected.

# SKILLS

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- **Programming Languages:** Python, SQL, Java, HTML/CSS, JavaScript
- **Business Intelligence:** Microsoft Power BI, Qlik Sense, Tableau, Microsoft Dynamics.
- **Version Controlling:** GitHub, GitLab.
- **Data Warehousing and Pipeline Suctioning:** Microsoft SQL Server (SSMS, SSIS, SSAS, SSRS)
- **Web/Back-End Development:** Flask, Fast API
- **Visual analytics and web analytics:** Gafana, hotjar , Google Analytics
- **Deployments:** EC2, Elastic beanstalk, S3
- **Development Tools:** VS Code, Eclipse, PyCharm, Visual Studio
- **Soft Skills:** Leadership, Research, Interpersonal Skills, Adaptability, Time Management

## HONORS AND AWARDS

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- International Conference of Data Science [ICDS] Mini Hackathon 2021 – 2<sup>nd</sup> Runners Up.
- IEEE CodeCon 2021 - 2<sup>nd</sup> Runner-up Ideathon Category (university hackathon).
- IEEE CodeCon 2021 - 2<sup>nd</sup> Runner-up –Popular Pitch Category (university hackathon).
- SLIIT Codefest – Datathon 2020 - Merit Award Winner (university hackathon).
- SLIIT Codefest – Algothon 2020 – Merit Award Winner (university hackathon).
- Manager in Career guidance of Data Science Student Community in SLIIT
- Dean List Certificate of Excellence (2020)

## CERTIFICATIONS

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- R Programming Course authorized by University of Johns Hopkins
- Introduction to Artificial Intelligence (AI) Course authorized by IBM
- Data Scientist's Toolbox Course authorized by University of Johns Hopkins
- Python Data Structures Course authorized by University of Michigan
- Programming for Everybody Course authorized by University of Michigan
- Bioinformatics with Python an online course authorized by University of California San Diego
- Intro to International Marketing an online course authorized by Yonsei University
- Getting and Cleaning Data course authorized by Johns Hopkins University
- Summary Statistics in Public Health certificate course authorized by Johns Hopkins University
- Completed The Challenges of Global Health an online non-credit course authorized by Duke University

## REFERENCES

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### Mr.Danushka Jayamaha

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