Pavan Pasidu Malshan

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Ambalangoda, Galle , Sri Lanka

About Me

A dedicated Computer Science & Engineering undergraduate with solid IT and project management skills. Reliable, adaptable, and an effective team player, ready to contribute in any environment.

Skills

- **Programming Languages**: Python | Java | C++ | JavaScript | HTML | CSS
- **Technical Fields**: Machine Learning | Natural Language Processing | Large Language Models | Computer Vision | AI |Full Stack Development
- **Databases:** MySQL
- **Tools & Services:** AWS | Git | Hugging Face | ServiceNow | Google Colab | Postman | VS code | Sagemaker
- **Frameworks & Libraries:** React | TensorFlow | PyTorch | Tailwind CSS | Hugging Face Transformers | Streamlit

Education

BSc Eng Hons, Computer Science & Engineering
University of Moratuwa 2021 - Present
Specializing in Data Science & Engineering

Dharmashoka College 2010 - 2019

- G.C.E A/L 2019: 3A Passes (Physical Science Stream) | Island Rank : 90
- G.C.E O/L 2016: 9 A Passes

Certifications

- Fundamentals of Deep Learning - NVIDIA (cert)
- AWS Academy Graduate - AWS Academy Data Engineering (cert)
- Machine Learning for Natural Language Processing - AWS Academy (cert)
- Feature Engineering course - Kaggle (cert)
- Time series forecasting course - Kaggle (cert)
- Creative writing competition - 1st runner-up - Jesuit Academy (cert)

Experience

WSO2 LLC 2023 Nov - 2024 May
Software Engineering Intern

- Customer Health Score Model creation
- Sentiment Analysis on customer comments
- Introduction to WSO2 products, Knowledge sharing sessions.

Projects

Bus arrival time prediction using Graph Neural Networks (Ongoing) 2024 May - Present

- Final year project
- Project's primary aim is to develop a more optimized model to predict the bus arrival time to specific stop in urban areas.
- **Tech Stack:** *Python, PyTorch Geomatric, GNN, Streamlit*

Customer Health Score Prediction 2023 Nov - 2024 May

- Intern project
- Project's main aim was to develop a model to identify the customers who are unsatisfied with the service provided by the company.
- **Tech Stack:** *Python, Streamlit, AWS sagemaker, AWS s3 bucket, JavaScript*

Highlights

- **Merit Pass - GCE A/L :** Island 90
- **Volunteer in Career Fair 2025:** Organizing Committee Member
- **Volunteer in EXMO 2023 -** Project Demonstrator / Presenter
- **Volunteer in "Soyuru Sathkaara 2023"** : Seminar Instructor
- **Extra Curricular Activity** : Violinist, Tutoring
- **Sports** : Karate, Swimming, Chess

Interests

- **Artificial Intelligence**
- **UI Design**
- **Machine Learning**
- **Natural Language Processing**
- **Chess**
- **Swimming**
- **Music**

References

Dr. Thanuja D. Ambegoda | Senior Lecturer
Department of Computer Science & Engineering, Faculty of Engineering, University of Moratuwa, Sri Lanka.
thanujaa@uom.lk, +94702655273

Mr. A.S. Chamara Silva | Senior Technical Lead
WS02 Lanka (Pvt) Ltd.
105, Bauddhaloka Mawatha, Colombo 4.
+94707382858

Student Summary Evaluator
2023 Aug - 2023 Nov

- Project's main aim was to create a model to evaluate the summary written by students(To evaluate content & grammar).
- **Tech Stack:** *Python, Streamlit*

Human Resource Management System
2022 Oct - 2022 Dec

- Project's main aim was to streamline and automate critical HR processes, including the management of employee data, payroll, recruitment vacations.
- **Tech Stack:** *HTML, CSS, JavaScript, MySQL, PHP*

Image Gallery App
2023 Nov

- Simple image gallery using react, tailwind css, firestore and firebase auth for user authentication
- **Tech Stack:** *React, Firebase, Firestore, Tailwind CSS*

Time Series Forecasting
2023 Sep

- Developed a time series forecasting solution to predict sales, utilizing historical sales data, oil price , holiday information. The solution involves data preprocessing, feature engineering, model training.
- **Tech Stack:** *Python, Google Colab*

Parkinson's Disease Progression Prediction
2023 May

- Develop models to predict Parkinson's disease progression by analyzing protien and peptide levels overtime. Trained models Random Forest Regressor and XGBRegressor, show promise in identifying key markers associated with disease.
- **Tech Stack:** *Python, Google Colab*

Email Client
2023 Aug - 2023 Nov

- Develop a command-line email-client for managing official and personal recipients. User can add recipients, send birthday greetings, and store emails. The project focus on OOP principals and best coding practices.
- **Tech Stack:** Java

OCR project
2025 April

- Develop a model to extracts information from images of the rear-page of Sri Lankan driving licenses.
- **Tech Stack:** Python, pytorch , sklearn ,matplotlib , easyocr