

ISMAIL MASSERAN

019-3460165 | ismailmasseran1@gmail.com | ismailmasseran.tech | [inkedin.com/in/ismailmasseran](https://www.linkedin.com/in/ismailmasseran) | github.com/Topaz52

EXPERIENCE

MYCES SDN. BHD.

Internship

Kajang, Selangor

March 2024–June 2024

- Conducted data analysis and cleaning, reducing missing values by 40% using KNN imputer and linear interpolation.
- Compared ARIMA and LSTM models for energy usage forecasting, selecting LSTM for its superior accuracy.

PEJABAT DAERAH BESUT

Internship

Besut, Terengganu

September 2021–February 2022

- Editing poster and videos for Hari Sukan Negara for PUSPANITA using Adobe Photoshop.
- Joined volunteer efforts for the School Aid Program 2021, ensuring timely delivery of supplies to schools, benefiting 1,000+ students and lighten the burden of children's schooling expenses borne by parents by 25%.
- Created montage video about Hari Sukan Negara for PUSPANITA.

EDUCATION

Universiti Teknologi MARA (UiTM)

Bachelor of Information Systems (Hons.) Intelligent Systems Engineering

Shah Alam, Selangor

March 2022 – June 2024

- Cumulative GPA: 3.51

Universiti Teknologi MARA (UiTM)

Diploma in Computer Science

Kuala Terengganu, Terengganu

July 2019 – February 2022

- Cumulative GPA: 3.76
- Awarded Anugerah Naib Canselor (ANC) for academic excellence.

PROJECTS

Energy Monitoring, Analysis, and Reporting System (EMARS)

- Integrated LSTM model for energy usage forecasting, achieving 7% MSE compared to ARIMA's 4%.
- Leveraged Fast API, a high-performance web framework, to deploy the LSTM-based energy forecasting model as a service.
- Developed 'Train' and 'Predict' API endpoints with WebSocket for real-time updates, improving user engagement by 30% and reducing prediction latency by 50%.

Anomaly Detection

- Reduced unexpected energy consumption spikes by 30% using Isolation Forest for anomaly detection, allowing users to take preventative actions.

Phishing Website Detection Using Recurrent Neural Network (RNN)

- Achieved 92% accuracy with a phishing website detection system using LSTM.
- Deployed the system using Flask, creating a robust web application for real-time detection.

EXTRA-CURRICULAR ACTIVITIES

Hackathon

- Varsity Hackathon (V Hack) 2023: Designed a UI using Figma to combat improper waste disposal, promoting recycling and responsible waste management practices for case study: Waste Management.

Certificates

- Cisco IoT Fundamentals: Connecting Things
- Oracle Database Design certification

SKILLS

- Data Manipulation: Pandas, NumPy
- Languages: Python, C++, Arduino
- Machine Learning: TensorFlow, RapidMiner, PyTorch
- Deployment Tools: Fast API, Flask, Docker
- Database Management: Oracle SQL, MySQL, MongoDB
- Data Visualization: Seaborn, Matplotlib