


TENGGU AHMAD NAIM NURUDDIN

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Education

University of Malaya (Kuala Lumpur, Malaysia) September 2019 - February 2023
Bachelor of Computer Science (Artificial Intelligence)

• CGPA: 3.98/4.00 (First Class Honours with Distinction)

Experience

Maxis (Kuala Lumpur, Malaysia) July 2021 - January 2022
Analytics and AI Intern (Machine Learning Operations Team)

- Developed a **resume rank and search application** using **Elasticsearch**, **Streamlit** and **Google Cloud Platform services** that enabled **recruiters** to **upload resumes** and **search for top candidates** using desired keywords.
- Developed **deep learning models** using **PyTorch** for **image quality classification** and experimented with **facial recognition algorithms** for a **fraud detection** use case on **identification card images**.
- Developed an **automated central monitoring system** using **Cloud Functions** and **BigQuery** and a **dashboard** using **Data Studio** to monitor **pipeline** and **model health** of the department's major projects.

Highlighted Projects

Algorithm to Estimate Neonates' Heart Rate from Breathing Sound

- My **undergraduate Final Year Project** that studies the feasibility of **estimating neonates' heart rate** from their **breathing sound**.
- **Trained and compared regression models** using **Automated Machine Learning (AutoML)** with a dataset of extracted **statistical time series signal features**. (Built using **tsfresh**, **scikit-learn**, **PyCaret**)
- **Developed** a complementary **breathing phase detection model** to **detect and classify breathing phases** in **audio-based breathing sounds** using an **object detection approach** (Built using **PyTorch** and **pycocotools**)
- Included a **web-based dashboard** to **upload breathing signals** and **obtain analysis**. (Built using **React**, **Flask**, **Firebase** and **Railway**)
- **Presented** an adaptation of the paper as a **finalist** at the **International Student Conference of Artificial Intelligence (STCAI 2022)** held by **Nanyang Technological University**, Singapore.

Fitnity

- An **analytics-driven full stack web application** that enables users to **discover sports activities** and **locations** and **encourages an active lifestyle** together as a community.
- Applied **sentiment analysis** and **keyword extraction** methods on **scraped Google reviews** to **encourage better decision making** when **searching for sports locations**.
- Built in **48 hours** for **Garuda Hacks** using **React**, **Flask**, **Firebase**, **Heroku**, **spaCy** and **yake**.

Achievements

First Runner Up at the 2022 IEEE Malaysia Section Final Year Project Competition

Awarded under the **Signal and Image Processing and Analysis** track for my undergraduate final year project.

Honourable Mention at Garuda Hacks 3.0 2022

Acknowledged as an **honourable mention** out of over **100 submitted projects** at **Garuda Hacks**, Indonesia's premier **global hackathon**.

Skills

Programming Languages: Python, Java, JavaScript, SQL, HTML, CSS

Machine Learning/AI: Scikit-learn, Tensorflow, PyTorch, PyCaret, OpenCV

Data Science: Pandas, NumPy, Matplotlib, Seaborn, tsfresh

Web Development: Flask, Streamlit, React, Gatsby

Other Tools: Git, Google Cloud Platform, Firebase, Airflow, Terraform, Docker, Selenium