Jana Venice Dayao

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Education

Singapore Institute of Technology & University of Glasgow 2023-2026
BSc in Computing Science, Specialization in Internet of Things (IoT)

Ngee Ann Polytechnic 2020-2023
Diploma in Biomedical Engineering

Whitley Secondary School 2016-2019
GCE 'O' Level Certificate

- **Awards:** Scholastic Merit Award (2019 GCE Ordinary Level), Geography (2018 Secondary 3 Express)

Skills & Interests

Programming Languages: Python, HTML/CSS, C, C++, Java, Javascript
Frameworks & Libraries: Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook
Machine Learning: Scikit-learn, TensorFlow, XGBoost
Databases & Database Management: MySQL, MariaDB, MongoDB Compass, MongoDB Atlas
Operating Systems: Windows, Linux

Internship

Innotech Resources Mar-Aug 2022
Junior Engineer Intern

- Facilitated the design, construction, and deployment of 8 RFID Smart Shelves for the National Cancer Center Singapore and Sembawang Polyclinic
- Liaised with clients to gather feedback on challenges faced and identify areas for functionality improvements on Parata Mini, Parata Max, RFID Desktop Readers, and RFID Smart Shelves
- Performed preventive maintenance on equipment in polyclinics and hospitals to ensure optimal performance
- Produced documentation to assist in troubleshooting machines, including a detailed guide on tuning RFID antennas

Projects

Tic-Tac-Toe ML Model | Python, Jupyter Notebook, scikit-learn, Pandas, Matplotlib, emlearn, NumPy

- Developed a machine learning model using the Decision Trees Classifier algorithm to predict optimal moves for an AI in a Tic-Tac-Toe game
- Performed data processing to standardize the categorical features using factorization.
- Performed feature engineering by converting board positions into a numerical format for model compatibility
- Achieved model accuracy of 90.6% and analyzed performance with metrics such as precision and recall
- Deployed the trained model into a desktop application using GTK and C by converting the Python model into a C-language model

Immunotherapy ML Model | Python, Jupyter Notebook, XGBoost, Pandas, Matplotlib, Seaborn, AWS Sagemaker

- Developed a machine learning model using the Gradient Boosting algorithm to predict the result of treatment of patients undergoing treatment
- Utilized Pandas for data manipulation and Matplotlib for visualizing data trends, statistical relationships, and model performance
- Deployed and trained the model on AWS Sagemaker for efficient model management