Neil Ruaro

https://eruaro.github.io/

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Education

- **De La Salle University** — Manila, Philippines
  Senior High School; GPA: 3.97 / 4.00 — *Jun. 2020 - Jun. 2022*

Experience

- **Omdena** — Remote
  Machine Learning Engineer — *May 2021 - Present*
  - **Potential Solar Power Plant sites in the Philippines**: Led the development of a machine learning application that looks for potential solar power plant sites in the Philippines based on satellite data. https://omdenaph-solar.vercel.app/

Projects

- **Dog Breed Classifier**: Implemented convolutional neural networks and utilized mobile-v-net2 architecture and utilized transfer learning, and deep learning with TensorFlow in order to classify dog breeds based on image inputs. Carefully picked optimizers and loss variables obtaining an accuracy score of 99 percent. https://github.com/eRuaro/Dog-Breed-Classifier
- **Bulldozer price prediction**: Implemented random forest regression algorithm using supervised machine learning to predict the sale price of bulldozers and assigned 5 risk parameters resulting in a 96 percent accuracy. https://github.com/eRuaro/bulldozer-price-regression
- **Heart disease classification**: Implemented logistic regression classification algorithm using supervised machine learning to identify whether one has heart disease or not and assigned 3 risk parameters resulting in an 85 percent accuracy. https://github.com/eRuaro/heartdisease-classification

Open Source Contributions

- **Bloc**: I contribute to open issues on Bloc, one of the most popular state management libaries for Flutter applications. Mainly working on bug fixes.https://github.com/felangel/bloc/
- **Harpy**: I contribute to active open issues on Harpy, a mobile application that enhances your Twitter experience. Mainly working on UI. https://github.com/robertodoering/harpy

Online Course Certificates

- **Accelerated Computer Science Fundamentals 3 course specialization (University of Illinois via Coursera, 2021)**: Learned Object-Oriented programming with C++. Learned how to implement various data structures such and algorithms such as Linked-List and Tree Traversals. https://www.coursera.org/specializations/cs-fundamentals
- **Applied Data Science with Python Specialization (University of Michigan via Coursera, 2021)**: Learned how to do data analysis, data visualization, and machine learning with Python, and libraries such as Numpy, Pandas, and Scikit-Learn. https://www.coursera.org/specializations/data-science-python
- **CS50x (Harvard University via EdX, 2020)**: Learned the basics of computer science and programming. https://www.edx.org/cs50

Technical Articles

- **Using Cubits for Easy Flutter State Management (Flutter):**: Wrote and published a tutorial article on how to get started on using the cubit state management approach in Flutter, with TDD. https://neilruaro.hashnode.dev/using-cubit-for-managing-states-in-flutter
- **Developing and Testing API Services with Python and FastAPI (Python):**: Wrote and published a tutorial article on how to create a Restful API service using TDD in Python and FastAPI. https://neilruaro.hashnode.dev/developing-testing-and-deploying-fastapi-applications

Programming Skills

- **Languages**: Dart, Python, C++ — **Technologies**: Flutter, Tensorflow, Scikit-Learn, FastAPI, Typer
- **Developer Tools**: Git, VS Code, Android Studior, WSL