Neil Ruaro

https://eruaro.github.io/

Email : neilruaro@gmail.com
Mobile : +63-929-236-6004

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/

- **HashNode** — Remote
  Technical Writer — *July 2021 - Present*
  - **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

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
- **Music Player**: Developed a music player application using Flutter, that accesses your device's local storage. Also supports downloading music from the web. https://github.com/eRuaro/music$_player$
- **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
- **Rawro chat**: Built a mobile chat application with Flutter integrated with a Firebase backend with integration of Cloud firestore wherein users can log-in / register using their email address. https://github.com/eRuaro/chat$_rawro$

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

Programming Skills

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