ALEXANDROS "ALÉ" PHILIPPOS POUROULLIS

Machine learning and software engineering enthusiast

✉ alexpouroullis123@gmail.com 📞 +27 71 540 8132 💼 alexandros-pouroullis-a105051b6

🐙 AlePouroullis 🌐 alepouroullis.com

PROJECTS

Machine learning pipeline for type Ia supernova classification

Google Summer of Code evaluative task

> Evaluative task for a Google Summer of Code open-source project hosted by the Johns Hopkins University Applied Physics Laboratory.

> Visualised data using matplotlib

> Created a machine learning pipeline consisting of 5 different models for determining 5 different physical characteristics of the progenitor systems of type Ia supernovae given their observable parameters

Speech emotion recognition

Loop Q Prize challenge A

> Used librosa to extract spectrograms, mel-spectrograms, mel-frequency cepstral coefficients and global average features

> Used a variety of data augmentations methods

> Wrote a paper on the task

Crop yield prediction

Loop Q Prize challenge B

> Explored, visualised and prepared data for training

> Trained and compared various models

WORK

Front-end developer

Elevat3d

📅 07/2022-Present

> Startup concerned with providing a variety of services to mines, particularly related to mine blasting, using machine learning and drone photography

> Part-time position as a software developer

> Building the interface in React

EDUCATION

Tertiary

University of Cape Town

BSc Computer Science and Applied Statistics

📅 2022-2024

Secondary School

Selborne College

📅 2019-2021

COURSES

Mathematics for Machine Learning Specialization

Imperial College London

> Linear Algebra
> Multivariable Calculus

SKILLS

Python pandas NumPy

Librosa Matplotlib scikit-learn

TensorFlow

Javascript HTML CSS Sass

React Redux Next.js

C++ Java