

ALEXANDROS “ALÉ” PHILIPPOS POUROULLIS

Machine learning and software engineering enthusiast

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🌐 AlePouroullis



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