

ALEXANDROS “ALÉ” PHILIPPOS POUROULLIS

Machine learning and software engineering enthusiast

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🌐 AlePouroullis



INDEPENDENT ENDEAVOURS

- **Machine learning pipeline for type Ia supernova classification**
[Google Summer of Code](#) evaluative task

Visualized data and 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. The project was an evaluative task for a [Google Summer of Code open-source project hosted by the Johns Hopkins University Applied Physics Laboratory](#).
- **Speech emotion recognition**
[Loop Q Prize](#) challenge A

Extracted many different audio features, including spectrograms, mel-spectrograms, mel-frequency cepstral coefficients, and global average features using librosa; used many different audio data augmentation methods; and wrote a paper on the task.
- **Crop yield prediction**
[Loop Q Prize](#) challenge B

Explored, visualized and prepared data for training; trained and compared various models.

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 React
Next.js
C++ Java