Projects Overview

Sort by date

CNN for Dog Breed Classification (2021)

Trained a CNN based on the Xception architecture on Image Net data, that classifies dog breeds. Deployed a Flask Web App to Heroku, where users can upload images of their dogs and see their breed.

- **Python:** Keras, Numpy Pandas, Flask
- Code on GitHub

Categories - *AI - Neural Networks, Image Classification*

NLP for Tweet Classification (2020)

Built an ETL Pipeline that classifies disaster response tweets, so that aid organizations can provide suitable help.

- **Python:** nltk, scikit-learn, pandas
- Code on GitHub, Check out the Hosted Web App

Categories - *ML - Data Science - NLP*

Research Project Classification Metagenomics (2020)

Science project to predict contaminated PCR plates based on Operational Taxonomic Units read counts and to investigate specific characteristics of the contaminated plates.

- Code and Paper on GitHub

Categories: - *Science - ML - Data Science - Bioinformatics*

Mobile App Development (2020)

Development of a cross-platform app that enables users to wait in a digital waiting room. Users can find a service, like a doctor, hospital, barber, or public institution, and ensure their place in a virtual queue. Conveniently, the users get notified about their current position in the queue via push notifications or receive an automated phone call.

- **Flutter:** Dart
- **Firebase:** Cloud Functions, Node.js
- Landing Page, Web App, Mobile Apps

Categories: - *Software Engineering - Cloud Services - Entrepreneurship*

Graph Alignment Python Package (2019)

Development of the multiVitamin is a software package to perform multiple graph alignments, which can be applied in the context of chemical molecules. The Bron-Kerbosch and the VF2 algorithm are building the algorithmic basis of the package

- **Python**
- Code on GitHub

Categories - *Bioinformatics - Scientific Software - Science - Python Package*

Cancer Classification (2020)

Comparing the Accuracy of the Random Forest Classifier and the SVM Classifier when Trained with different Parameters in the context of blood cancer classification.

- **R:** ranger, Rmarkdown
- Report on GitHub

Categories - *Bioinformatics - ML - Science*

Predicting Hotel Booking Cancellation

Data Science Case Study to predict hotel booking cancellations and identify the most important factors contributing to cancellation.

- **Python:** Scikit-learn, pandas, NumPy
- Code on GitHub, Article on Medium

Categories - *Data Science - Business Analytics*
