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Julien Guinot, Msc

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Data Scientist / Machine Learning Engineer

EDUCATION

Ecole Centrale de Lyon, MSc Engineering

GPA: 3.9/4

2018 - 2022

- Coursework: Elective classes in Python, C++, Acoustics, Musical Acoustics, Signal processing.
- Core classes in Statistics, OOP, Machine Learning, Linear Algebra, Management.

University of Adelaide. MSc Engineering - Acoustics. Data science

GPA: 5.86/7

2021-2022

- Coursework: Elective classes in Deep Learning, Natural Language Processing, Computer Vision Reinforcment learning, Applied Machine Learning, Statistics. (Golden key award for academic excellence)
- Project: Music Information Retrieval project Vocalist classification via spectrogram computer vision. (Github)
- Project: Forecasting GOOGL stock prediction via RNN. (Github)

Machine Learning Course - Andrew Ng, Coursera

2021

Neural Networks, Regression, Recommender Systems, K-means, KNN. Natural Language Processing, Computer Vision.

EXPERIENCE

Data Scientist / Music Information Retrieval Scientist Groover

April 2022 - Present

Paris, France

Master's Thesis: Implemented audio tagging at scale towards better musical recommendations.

- Researched, built and tested seven state of the art music tagging models, reaching 92% ROC-AUC.
- Designed, Set up, and evaluated relevant experiments. Designed full audio processing pipeline on 1M tracks.
- Extracted key insights from large datasets using metabase and SQL on user behaviour with A/B testing, improving key metrics by 10%. Created dashboards of 10 countries with exploratory data analysis for the Curator team.

Skills: Python, Tensorflow, Pytorch, SQL, Git, Librosa, AWS, Keras, Computer Vision, Music Information Retrieval, DSP

Data Science Intern

March 2021 - September 2021

Artefact

Paris, France

- Created a Streamlit web app for bulk labeling 1 million sample NLP datasets using Huggingface and TensorFlow. (Github)
- Implemented 3 dimension reduction and 3 clustering algorithms to predict automatic clusters of topics for NLP datasets.
- Consulted for 20 ENGIE stakeholders towards help desk caller polarity sentiment analysis through a speech-to-text pipeline.

Skills: Python, Tensorflow, Streamlit, HuggingFace, Git, SQL, Azure Cloud, NLP, Data Science, Data analysis, Jupyter

Data Science Intern

October 2020 - March 2021

Paris, France

Paris, France

Data New Road

Implemented deep learning algorithms towards real-time prediction of accidents, short term prediction of traffic flow reaching 10% MAPE. Researched state of the art traffic flow prediction algorithms (graph neural networks, CNN).

Skills: Python, Tensorflow, NoSQL, AWS DynamoDB, MongoDB, Neo4J, Git, Jenkins, Agile, Scrum, Jupyter

Research Intern

March 2020 - July 2020

IRCAM

Conducted research towards active control of the first vibrational modes of a cello strings using Matlab, reaching 3% spectral error. Gained in-depth understanding of signal processing and spectral representations as well as research methods.

Skills: Matlab, Signal processing, Acoustics, Applied physics, Research, DSP

SKILLS

Languages and Packages Python, Jupyter Notebook, Pytorch, TensorFlow, Pandas, Numpy, Librosa, Sklearn, SQL,

PostgreSQL, MySQL, C++, Javascript, React, threeJS, Django

Quantitative Machine Learning, Deep Learning, Music Information Retrieval, NLP, Computer Vision,

Statistics, Exploratory data analysis, Signal processing, Acoustics, Musical Acoustics

Tools and platforms Git, Github, AWS, Metabase, Jira, Jenkins, Azure cloud, IATEX

Creative and Music Ableton, FL Studio, Photoshop, Premiere, Illustrator

Linguistics English (native), French (Native), Spanish (limited working), Japanese (beginner)

ACTIVITIES AND PROJECTS

Independent research	Video Classification with Video transformers on Music tagging	2022
Medium articles	Vulgarization of state of the art ML on medium (Link)	2022
President of DJ associtation	Presided over a 16-member D.Jing and sound engineering student society. Over-	2019 - 2020

saw the organisation of events with 1000 attendees and DJed at them.

Sound & mixing engineer, Three years as sound engineer for a student musical With 44k€ of equipment 2018 - 2021 Community manager & 2000 spectators. Mix engineer for the album of orchestral arrangements.

Media creation and social media marketing for the same musical.

INTERESTS

Music: 8-year self-taught Guitarist, Bassist, Keyboardist. Bass vocalist. Producer & DJ for 1000-people events.