Eliot GUEZ

Student at TELECOM PARIS

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Internship in Data Science, Artificial Intelligence

EDUCATION

2023-Present
- **Master of Science** at Télécom Paris, Paris
  - Major in Artificial Intelligence for signal processing : time series (periodogram, AR, MA, ARMA, kalman filter), speech processing (NMF, DTW).
  - Major in Computer vision : machine learning(SVM, KNN, random forest), deep learning (MLP, CNN, GAN, VAE, RNN), hyperspectral imagery (PALM, ISTA), motion estimation (LK) , object tracking.

  GPA= 3.96

August 2023
- **Hi!Paris DataBootcamp** at Télécom Paris, Paris

  A 5-day journey experience as a data scientist to carry out a project, from business understanding to data perception, exploration, visualization and modelization.

2022-2023
- **Bachelor of Science,** at Télécom Paris, Paris

  First year at Télécom Paris. Intensive courses in mathematics and computer science. One of the top 3 graduate school in engineering, the top ranked in computer science. GPA=3.96

2020-2022
- **Scientific preparatory class,** at Lycée Blaise Pascal, Paris

  Intensive program in advanced maths, physics and computer science preparing for French competitive exams for French Ivy League "Grandes Ecoles". GPA=4

PROJECTS

May 2024 - June 2023
- **Deep Learning project in Computer Vision**

  Research project aimed at automatically clustering a dataset of 3000 works of art from 100 painters.
  - Implementation of DenseNet and ResNet algorithms pretrained with ImageNet weights to get a feature vector per painting.
  - Projection of each painting into a 2D feature map using T-SNE to visualize all painters and their painting.
  - Application of Gaussian Mixture Models (GMM) to identify clusters representing different artistic styles.

March 2024 - May 2024
- **Research Project in Machine Learning and Computer Vision**

  Research project aimed at classifying skin lesions into eight different classes using a 18,000-image dataset.
  - Implementation of preprocessing algorithms to remove hair, bandages, artifacts.
  - Implementation of postprocessing algorithms to generate a mask to isolate the lesion from the rest the image.
  - Extraction of multiple features from both the image and the mask in order to apply different machine learning algorithm.
  - Application of multiple algorithm such as Random Forest, KNN, SVM to classify each image.

September 2023 - November 2023
- **Research Project in Computer Vision**

  Research project aimed at transferring color from an image A to an image B.
  - Analysis of an original theremin spectrum to synthesize the amplitudes of individual harmonics.
  - Signal processing to determine frequencies corresponding to the user's hand distance from the sensor.

June 2023 - July 2023
- **Research Project in Signal Processing**
  - Implementation of methods such as separable specifications or 3D slice transport.
  - Implementation of postprocessing algorithms such as the Yaroslavsky filter to improve the results and remove artifacts.

Professionnal Experience

September 2022 Present
- **Leader of a local scout group of 50 people**
  - Chief leader of a local scout group of 50 members.
  - Responsible for organizing a 4-week summer camp for 100 children aged 11 to 16 and managing a 70k budget.

January 2023 - January 2024
- **Vice-Treasurer of Telecom Paris Music Association**
  - Production of multiple concerts throughout the year and a major festival attended by over 1,000 people and featuring professional artists.
  - As a drummer, I took part in a festival in Paris attended by over 1,000 people.

September 2022 - October 2023
- **Events Association**

  Responsible with 3 other students for organizing the gala evening following graduation, which brought together all the Telecom classes, around 500 people.

LANGUAGE

- **French :** native speaker
- **English :** advanced (TOEFL IBT: 101)
- **German :** basic knowledge
- **Japanese :** basic knowledge

SKILLS

- **Programming languages:**

  Python: OpenCV, Pandas, SkImage, PyTorch, Tensorflow

  Java, C, C++, HTML, CSS , Javascript, Markdown LateX, SQL