

Jean-Charles Kouame'

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EDUCATION

Brunel University of London, London, UK

- **MS Statistics with Data Analytics with Distinction** Sep 2021 - Dec 2022
- Courses: Machine Learning, Big Data Analytics, Quantitative Data Analytics. Time Series modelling

Polytechnic University of Milan, Milan, IT

- **BS Mechanical Engineering** Sep 2011 - Feb 2017
- Courses: Linear Algebra, Calculus, Numerical Methods, Management of production systems

SKILLS

- Experience programming with Python
- Solid understanding of AI, machine learning algorithms
- Frameworks: PyTorch, TensorFlow, Scikit-Learn, NumPy, Pandas
- Data processing, data exploration and visualisation: SQL, Tableau/PowerBI
- API development: FastAPI, Flask, Django
- Tools and platforms: AWS, GCP, Docker, Git, Linux, Google Colab
- Committed to integrity and professionalism, driven, collaborative, flexible

WORK EXPERIENCE

Business Analyst, QAD Inc, Milan, IT

Jul 2017 – Sep 2021

I participated in national and international projects accomplishing the following:

- Conducted business reviews, technical documents and testings to identify opportunities for improving client's processes
- Developed and delivered training programs for 20+ employees, resulting in successful go-live and new standards across the organisation
- Implemented a new system in 3 different production plants contemporarily in a 3 months time window
- Obtained APICS CPIM certification which required 175+ hours of study

PROJECTS

Generative Adversarial Network (DCGAN)

[Open project](#)

Generated synthetic images with the purpose of evaluating the limits and capabilities of a DCGAN model. The implementation follows the original paper.

- Impact: Algorithm implementation, model training, generative learning

Face Detection, Landmarks and Emotion Recognition

[Open project](#)

Implemented an API that access the webcam video stream through the web browser, and performs face detection and landmarks and emotion recognition.

- Impact: Web application, APIs, Object recognition

Financial News Sentiment Analysis Web App

[Open project](#)

I created a web application in which I a small, fast, and light Transformer, performs text analysis and classify financial news. The web app has been deployed with Streamlit.

- Impact: Natural language processing, financial news, web applications, APIs

Data analysis and visualisation with Tableau

[Open project](#)

Created a dashboard with dataset from Kaggle. The final implementation is a composition of multiple views.

- Impact: Data cleaning, data analysis, data visualisation, presentation

Loss functions in Deep Learning (Master Dissertation)

[Open project](#)

Discussed principles of statistical learning and deep learning. Experimented with an image classification Convolutional network different loss function.

- Impact: Network design, CNN, model evaluation and validation

AWARDS

John Gregory Memorial Prize, Brunel University of London.

Oct 2022

For "The best performing student on any MSc programme offered by the Department of Mathematics".