Jean Kouame'

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SUMMARY

- Strong programming skills and experience working with Python
- APIs development: Flask, FastAPI
- Scikit-Learn, NumPy, Pandas, Jupyter Notebook and Google Colab
- ML frameworks: TensorFlow, PyTorch
- Solid understanding of ML and deep learning architectures
- Understanding of cloud based infrastructures: AWS
- Other languages: HTML, CSS, Javascript, R, SQL
- Meta-skills from challenging background: Critical thinking (intellectual humility, courage, empathy, autonomy)

EDUCATION

Brunel University of London, London, UK

MS Statistics with Data Analytics (Grade: Distinction) Sep 2021 - Dec 2022

- Fundamentals of Machine Learning
- Big Data Analytics
- Quantitative Data Analytics
- Probability and Stochastics
- Time Series Modelling
- Computer Intensive Statistical Methods

Polytechnic University of Milan (Politecnico di Milano), Milan, IT

BS Mechanical Engineering Oct 2011 -Feb 2017

- Management and Industrial Engineering
- Statistics
- Informatics
- Calculus
- Analytical and Numerical Methods
- Linear Algebra

PROJECTS

Face Detection and Landmarks and Emotion Recognition API Oct 2022

This project is done to explore JavaScript's API face-api.js. The webcam's video stream is taken as the input to generate the model's prediction in the web browser for face detection, landmarks and emotion recognition.

- Impact: API's deployment
- https://github.com/draperkm/Face_Detection_and_Landmarks_Gender_Emotion_Recognition

Generative Adversarial Networks (DCGAN), fake images generation Sep 2022 – Oct 2022

We generated a set of synthetic images with the purpose of evaluating the limits and capabilities of the model. The implementation follows the original paper of a Deep Convolutional Generative Adversarial Networks.

- Impact: evaluation of limits and capabilities of generative models
- https://github.com/draperkm/DCGAN_Implementation

Loss functions in Deep Learning (Master Dissertation) Jun 2022 – Sep 2022

Composed by a first theoretical discussion of core principles of ML, and a second part where we experiment with different loss functions applied to a CNN network, for an image classification task

- Impact: reinforcement of core fundamentals of machine learning, such as Classification/Regression, Optimisation, Backpropagation, Convolutional Layers, Cross Entropy
- https://github.com/draperkm/MSc_Dissertation_2021-22/blob/main/MSc_Dissertation.pdf

Data analysis in Tableau Mar 2022 – Apr 2022

I created a dashboard with the 'Videogame' dataset from Kaggle. The final implementation is a composition of multiple views presented as a Dashboard.

- Impact: Data analysis through data visualisation
- https://github.com/draperkm/Tableau_Project/blob/main/Coursework.pdf

EXPERIENCE

Software consultant, QAD Inc., Milan-IT Jul 2017 – Sep 2021

QAD Inc. is a cloud-based enterprise offering ERP software solutions based on relational databases. Its customers are concerned with connecting the manufacturing with the rest of the business. I participated in national and international projects, achieving the following:

- Worked direct contact with customers, achieved 80% of total billable time
- Gathered business requirements and written technical documents
- Extra: completed APICS Planning and Inventory Management certification (CPIM), 75-100 hours required
- Extracted business information from relational databases with Progress OpenEdge language

PRIZES

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'

LINKS

- GitHub
- LinkedIn