Alex Santonastaso

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Passionate and motivated computer scientist with a Masters Degree in Big Data Science with Machine Learning Systems. Having developed a strong foundation in data analysis, machine learning and statistical modeling through rigorous coursework and practical projects during my postgraduate studies, I am seeking a Data Scientist position to leverage my knowledge and problem-solving skills to solve real-world challenges.

PROFESSIONAL EXPERIENCE

Big Data Processing and Principles of Machine Learning Teaching Assistant

Sep 2023 - present

Queen Mary University of London

- Conducted hands-on lab sessions for Big Data Science and Principles of Machine Learning modules, guiding students through practical applications and real-world scenarios.
- Developed and delivered clear, concise presentations to communicate complex concepts, ensuring student comprehension and engagement.
- Offered one-on-one assistance to students, providing valuable insights for individual projects and assignments.

SKILLS

Programming languages (Python, Java, C#, SQL, R),

Frameworks (Pytorch, Tensorflow, scikit-learn, NumPy, Pandas, matplotlib, Hadoop, Spark, MapReduce), **Developer Tools** (Jupyter Notebook, Git, MS Office, Excel, Google Cloud Platform, AWS), **Languages** (English - fluent, Italian - native)

PROJECTS

Comparative Analysis of automated facial emotion recognition with different levels of blur

- Conducted data preparation and pre-processing on the Aff-Wild2 dataset, including image duplicates removal, face detection, face alignment, data augmentation.
- Implemented facial emotion recognition using GoogLeNet Convolutional Neural Network architecture, achieving a 60% recognition accuracy on a testing dataset.
- Tested the model on blur augmented data, concluding that it proves to be robust even when classifying blurred
- Trained a second model on artificially blurred data to improve performance when classifying blurred faces.

Ethereum Transaction Data Analysis

- Performed analysis on the raw data of Ethereum transactions, blocks, smart contracts by implementing a set of Hadoop and PySpark Map/Reduce operations such as top K, aggregation, moving window technique.
- Created barplots using matplotlib representing results: time analysis of the dataset, top ten smart contracts, top ten miners.

Audio Classification using Machine Learning techniques

- Extracted features such as tempo from raw music audio data.
- Developed a classifier based on machine learning techniques such as Support Vector Machine, Logistic Regression and Naive Bayes.

EDUCATION

MSc Big Data Science with Machine Learning Systems

Queen Mary University of London

Grade - Distinction

BSc Honours Computer Science

University of Westminster Grade - First Class

Diploma of Higher Education

Liceo Scientifico Alessandro Manzoni

Sep 2018 – Sep 2021 London, UK

Jan 2022 – Jan 2023

London, UK

Sep 2013 - Sep 2018 Caserta, Italy