

Lorenzo Ridolfi

SOFTWARE DEVELOPER · DATA SCIENTIST

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Work Experience

Reply Whitehall

SOFTWARE DEVELOPER

Rome

Mar. 2023 - In progress

- implemented a Spark pipeline that can connect to the mongoDB database, take millions data and manipulate it as needed.
- Implemented a REST API with Spring able to perform downloading of Pdf and Xml documents useful for a public administration application.
- Collaborated in the process of transitioning a monolithic application to microservices for the benefit of local public administration using Java.

Education

University of Bologna - Unibo

M.S. IN COMPUTER SCIENCE

Bologna

Oct. 2023 - In progress

Polytechnical University of Marche - Univpm

M.S. IN DATA SCIENCE | 105

Ancona

Oct. 2020 - Feb. 2023

University of Urbino - Uniurb

B.S. BUSINESS ECONOMICS | 99

Urbino

Oct. 2015 - Jun. 2020

Projects

Natural Language Processing

EMOTION RECOGNITION

[GitHub](#)

Jul. 2022 - Dec. 2022

- Classification models of emotion recognition in text with Artificial Neural Networks using Python and Keras.
- Used GPT-3 and BERT to train classification models, achieving 90% accuracy on test set.

Image Classification

PNEUMONIA DETECTION

[GitHub](#)

Jun. 2023 - Jul. 2023

- Developed a Convolutional Neural Network (CNN) model in Python for medical image classification.
- Got 91% accuracy on the test set effectively identifying pneumonia cases.

Computer Vision

TRAFFIC DETECTION

[GitHub](#)

May. 2023 - Jun. 2023

- Implemented the YOLOv8 algorithm in Python for traffic detection and counting on highways.
- Got an mAP of 85% using a video in mp4 format.

Forecasting

APPLE INC. EARNING FORECAST

[GitHub](#)

Feb. 2022 - Mar. 2022

- Developed a predictive model with R using multiple linear regression.
- Got forecasting results with an R^2 of 88%.

Skills

Technologies Python, Java, R, Sql, MongoDB, Html, Git, Spark, Spring, Pandas, TensorFlow, Sklearn

Languages Italian, English