



Lorenzo Di Filippo

WORK EXPERIENCE

Borsista

[10/2019 – 10/2021]

Università degli studi di Roma "La Sapienza"

City: Rome

Country: Italy

EDUCATION AND TRAINING

[09/2018 – 10/2021] **bachelor degree**

Università degli studi di Roma "La Sapienza"

<https://www.uniroma1.it/it/paginastrutturale/home>

City: Rome

Country: Italy

Field(s) of study: Engineering in Computer Science

Final grade: 110/110 cum laude

Thesis: pick and delivery come applicazioni della robot navigation

[10/2019 – 10/2021]

Percorso di Eccellenza

Università degli studi di Roma "La Sapienza"

<https://www.uniroma1.it/it/paginastrutturale/home>

City: Rome

Country: Italy

Field(s) of study: Engineering in Computer Science

[10/2021 – Current]

Master Degree

Università degli studi di Roma "La Sapienza"

<https://www.uniroma1.it/it/paginastrutturale/home>

City: Rome

Country: Italy

Field(s) of study: Computer Science

Final grade: Weighted average 28.62/30

Thesis: Exploring the Performance and Security Landscape of Avalanche Blockchains **Link:**

<https://drive.google.com/file/d/1w-oN22r92VT2oVRHjJ13oFPJwYITyoaO/view?usp=sharing>

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING C1 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

Microsoft Powerpoint | Google Drive | C, C++ C# | HTML, JS, CSS | Python | Java | SQL, MySQL, SQLite

PROJECTS

Relation Extraction for Deep Learning

Relation extraction is a natural language processing (NLP) task that involves identifying and categorizing relationships between entities mentioned in a text. Entities are typically nouns or noun phrases that refer to specific individuals, organizations, locations, or other entities. The goal of relation extraction is to automatically extract meaningful connections or associations between these entities, revealing the underlying structure of information within the text.

For this project, we utilized the WebNLG dataset (<https://paperswithcode.com/dataset/webnlg>). The achieved F1 score was 93.5 for the "Relation Extraction" task and 97.9 for the "Named Entity Recognition" task.

Link: https://drive.google.com/drive/folders/1kLaRyg3aaSWq9FJClwnoTpsSsNBGHCIQ?usp=drive_link

Restaurant Order Manager

This is an application for creating and managing restaurant-related websites. It consists of a client-side and a server-side. The client-side is used by customers to search for restaurants, view menus, and place orders using the token associated with their table. The server-side is used by restaurant staff for management purposes. It enables them to manage tables and reservations, modify the menu, handle customer orders, and analyze the restaurant's performance through graphs and reports.

Link: <https://github.com/FetRobot/restaurantOrderManager>

Fitness diary App

Android app for tracking physical activity and macronutrient intake through a daily personal diary.

Link: <https://github.com/gianluca-cacciarini/Fitness-diary-APP>

Avalanche Blockchain Pseudo Algorithm Replication

This is the project related to the master's thesis whose study aimed to assess the scalability of the Snowball algorithm by testing it while varying the number of nodes and the percentage of faulty nodes within the network. We used Simpy and python for the development and testing of the algorithm. SimPy is a process-based discrete-event simulation framework based on standard Python. It functions as an asynchronous event dispatcher that allows the generation and scheduling of events at specified simulation times.

Link: <https://github.com/lorenzo-12/tesi>

Big Data Computing Project

Big Data Computing course project regarding the study and practice of various techniques used for the analysis of large datasets, such as k-means clustering, SVD/PCA and LSH.

Link: <https://drive.google.com/drive/folders/11hknfiEMtPbXZkMOjFH760mwFTwnWINb?usp=sharing>
