Leonardo Emili

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EDUCATION

Sapienza University of Rome	Rome, Italy
Master of Science in Computer Science, Major in Deep Learning	*Sep. 2020 – June 2022*
Sapienza University of Rome	Rome, Italy
Bachelor of Science in Computer Science, 110/110 cum laude	*Sep. 2017 – June 2020*
I.T.T. C. Colombo	Rome, Italy
Secondary School Diploma, 100/100	*Sep. 2012 – June 2017*

EXPERIENCE

Research Assistant — July 2020 – Present
Sapienza University of Rome — *Rome, Italy*

Developed neural representations for named entities from Wikipedia with Prof. Roberto Navigli, funded by ERC Consolidator Grant, EU H2020 project number 726487.

PROJECTS

Aspect-Based Sentiment Analysis | *PyTorch, Python, Docker, Bash* — June 2021 – August 2021
- Explored current state-of-the-art approaches in ABSA
- Designed a multitask learning approach with contextualized embeddings and CRF

Distributed Stock Price Forecasting | *PyTorch, Python, Apache Spark* — May 2021 – June 2021
- Explored approaches with technical and fundamental analysis in stock price prediction
- Designed a neural approach leveraging technical and fundamental analysis to make predictions
- Implemented a distributed stock price forecasting system to predict S&P 500 stock prices

RESTaurant-reservation | *Docker, Node.js, Flask, Python, Vue.js, JavaScript* — April 2021 – July 2021
- Designed a microservice-based restaurant reservation system with Docker swarm orchestration
- Performed unit testing and stress testing to measure the real system capabilities
- Implemented a responsive web application

Word-in-Context Disambiguation | *PyTorch, Python, Docker, Bash* — March 2021 – May 2021
- Explored current state-of-the-art approaches in WiC
- Designed an approach with bidirectional LSTM

Ear Recognizer | *C++, Android, Java, Python, Bash* — January 2021 – March 2021
- Designed an ear recognition system for online verification and identification of enrolled subjects.
- Implemented a simple Android application to showcase system capabilities

SpendyBudget | *Vue.js, JavaScript* — April 2020 – May 2020
- Designed a full-stack spending tracker to manage expenses on the cloud
- Implemented the authentication system to grant access to the users
- Implemented a responsive web application

Wake-Up Radio for Wireless Sensor Networks | *C++, Bash, Python* — November 2019 – July 2020
- Explored current state-of-the-art approaches in green WSN
- Implemented an energy-harvesting-aware routing protocol

GuideMe | *Flutter, Dart* — November 2019 – January 2020
- Designed a mobile app for interacting with guides and engaging in trips
- Implemented platform-specific components

Wikifier | *PyTorch, Python, Bash* — May 2019 – March 2020
- Implemented a model to perform Entity Linking to Wikipedia entities
- Implemented scripts to scrape text from Wikipedia dumps

Orari Sapienza | *Android, Java, SQLite, NoSQL, Python, Bash* — June 2017 – October 2018
- Designed from scratch an Android application for studying at Sapienza
- Implemented scripts to scrape timetables either from APIs or PDF files

Awards

Honours Program | Excellence Path May 2019 – March 2020

The Excellence Programme aims to enhance the training of worthy students enrolled in a
study programme and interested in activities concerning study and cultural integration.

Technical Skills

Programming Languages: Python, Java, Dart, C, C++, Shell, JavaScript, TypeScript, SQL
Frameworks: PyTorch, Tensorflow, Keras, Flutter, Vue.js, Flask
Developer Tools: Git, Docker, GCP, AWS, LaTeX

Languages

Italian: Native
English: Advanced
Spanish: Advanced
German: Intermediate
French: Intermediate