Andrea Severi

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Cesena, IT | 342-3209-388

EDUCATION

BS Computer Science and Engineering   Cesena, IT | Jul 2023
University of Bologna

WORK EXPERIENCE

FLASHSTART | Artificial Intelligence Intern   Cesena, IT | Jun 2022 – Jul 2022

- Conducted **web scraping** to retrieve website links datasets that correspond to specific categories.
- Performed **language detection** on the extracted text from the scraped websites.
- Utilized Python's NLTK to **remove stopwords** from the datasets.
- Applied **stemming and lemmatization** techniques through NLTK on the datasets to improve data quality.
- Created **word clouds** to visualize word frequency and importance in the datasets.
- Developed a **text classification neural network** using Keras and TensorFlow to categorize the data based on specific criteria.

FLASHSTART | Artificial Intelligence Intern   Cesena, IT | Jul 2021 - Aug 2021

- Conducted vast research to retrieve datasets containing **foreign words to improve the accuracy** of the neural network.
- Utilized Python's NLTK to **remove stopwords** from the datasets, enhancing their quality and relevance.
- Applied **stemming and lemmatization** techniques through NLTK on the datasets to further refine the data.
- Developed a custom **translator to convert foreign language datasets to English**, enabling the neural network to analyze them more effectively.
- **Improved already-existing datasets** by conducting thorough quality checks, identifying and correcting errors and inconsistencies.

PROJECTS

DIMLIGHT ↗   Kotlin, Jetpack Compose, Android | Sep 2023 - Now
Dimmable flashlight for Android 13+ devices: easily adjust brightness levels of your flashlight.

ALMAMAP NAVILE ↗   TypeScript, Node.js, Vue.js, Sequelize | Mar - Jul 2023
Thesis project about wayfinding for the Navile campus, University of Bologna. Helps students find the path to their destination.

SMART GARDEN ↗   C++, IoT, Arduino, Java | Jul 2022
Embedded & IoT system implementing a simplified version of a smart garden, i.e., a smart system monitoring and controlling the state of the garden through sensors, HTTP protocol, serial and Bluetooth lines.

MYUNIBO ↗   Kotlin, Jetpack Compose, Android | May - Jun 2022
Revisited myUniBo University of Bologna app for students, that makes it simpler and more intuitive to book exams, see lessons of the day, grades, and stats about student's career.

AIRLINE TRAFFIC SIMULATOR ↗   Java, JavaFX | May - Aug 2021
Group project of a 2D desktop video game inspired by Flight Control. User's goal is to land as many airplanes as possible without causing collisions. Difficulty increases each time airplanes land, which makes you earn points.

SKILLS

Languages: Java, Kotlin, Python, Rust, TypeScript, SQL
Web Development: Svelte, Vue.js, PHP, JavaScript, TypeScript, HTML/CSS
Technology: Git, MySQL, SQLite, LaTeX