

# Andrea Severi

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## EDUCATION

**BS Computer Science and Engineering**  
UNIVERSITY OF BOLOGNA

Cesena, IT | Jul 2023

## WORK EXPERIENCE

**FLASHSTART** | ARTIFICIAL INTELLIGENCE INTERN

Cesena, IT | Jun 2022 – Jul 2022

- Retrieved website links datasets belonging to specific categories
- Extracted relevant text of the aforementioned websites and detected their language
- Removed **stopwords** with NLTK in Python
- Applied **stemming** and **lemmatization** with NLTK in Python on the datasets
- Generated **wordclouds** to visualize the frequency and importance of each word
- Created a text-classification **neural network** using Keras and TensorFlow

**FLASHSTART** | ARTIFICIAL INTELLIGENCE INTERN

Cesena, IT | Jul 2021 - Aug 2021

- Retrieved datasets containing **foreign words** to improve AI accuracy
- Removed **stopwords** with NLTK in Python
- Applied **stemming** and **lemmatization** with NLTK in Python on the datasets
- Implemented a **translator** to translate the datasets to English
- Improved the **quality** of already-existing datasets

## PROJECTS

**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, JAVA FX | 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.

**CASINE** 

TAURI, RUST, SVELTE, TYPESCRIPT | FEB - MAY 2023

Apartment management system to stores guests, their data and info about owner's houses and apartments. Calculate final price, based on number of guests and their age.

**!!! JETPACK COMPOSE EXTENDED / JAVA MORE** 

C#

A capture-the-flag-styled shooting game composed of AI-controlled players. The agents change their goals based on various factors, such as their health, current weapon, their personality and what they see.

**FOOD DELIVERY WEBSITE** 

HTML, CSS, JAVASCRIPT, PHP | JAN 2022

A food delivery website just like many others, that allows you to buy food and drinks on the user part. On the owner's part, it lets you manage orders.

## SKILLS

**Languages:** Java, Kotlin, Python, Rust, TypeScript, SQL

**Web Development:** React, Vue.js, PHP, JavaScript, TypeScript, HTML/CSS

**Technology:** Git, MySQL, SQLite, LaTeX