



# Federico Luzzi

Open to:

**Data Scientist**  
**Data Engineer**



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fedo97luzzi@gmail.com

Italian

## Social Network



<https://github.com/fedous>



<https://www.linkedin.com/in/federico-luzzi-73619816a>

## Database Tools



SQL



MongoDB

SPARQL

Kafka

Neo4j

Hadoop

## Programming languages



Python



R



Java



C, C++

HTML5

CSS3

Javascript

## About me

IT enthusiast, always keeping up to date. I'm a fast learner, trying always to overcome obstacles to improve myself. I enjoy working in teams during projects which I've experienced during University.

## Education

### University

2019–2021

**Data Science,**  
**Master Degree**

Università degli studi di Milano Bicocca

Grade: *110/110 cum laude*

Study of all aspect of data life: data collection techniques, big data handling, data analysis, machine learning and state-of-the-art approaches.

**Mater thesis:** Study and implementation of structural learning for Sum-Product Networks.

2016–2019

**Informatics,**  
**Bachelor Degree**

Università degli studi di Milano Bicocca

Grade *110/110 cum laude*

**Bachelor thesis:** Identification of spatio-temporal events: study and implementation on a crime dataset

### High School

2011–2016

**Technical commercial Institute**  
**High School Diploma**

ITCG P. Saraceno

Grade: *100/100*

Technical commercial high school with IT address, in particular on company information systems.

## Working Experience

05-2021 -  
08-2021

**Accademic Internship**

Università degli Studi di Milano Bicocca

DISCO department - Viale Sarca 336, 20126, Milano, MI

Research for master thesis. Remote activity of literature study, code optimization and model testing.

2017 - 2021

**Tutoring Students**

Tutoring high school students in Computer science and Math.

June 2015

**Bank Internship**

Credito Valtellinese S.p.A

Viale Tommaso Ambrosetti 2, Morbegno (SO)

Front office activity, treasury management, handling client relationships, support on back offices.

## Projects

Data  
Management

**YouTube Trending Analysis**

*A Pipeline of scraping for YouTube trending data to analyze the differences between the results before and after the Covid-19 outbreak.*

Python

MongoDB

kafka

matplotlib

[https://github.com/fedous/Youtube\\_trending\\_analysis](https://github.com/fedous/Youtube_trending_analysis)

deeprob-kit

**LearnSPN optimization**

*The master thesis project. It involves in the optimization of LearnSPN: a structural learning algorithm of Sum-Product Networks. I've contributed to the deeprob-kit python library.*

Python

deeprob-kit

scikit-learn





<https://github.com/deeprob-org/deeprob-kit>

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## Python data mining libraries




-  Numpy, Pandas
-  Matplotlib, Seaborn
-  Scikit-learn, Keras
-  Tensorflow, pytorch

## Other tools


Jupyter Environment   KNIME   Git


Tableau   Linux   AWS    $\LaTeX$


## Soft Skills

-  Good time management
-  Team working
-  Self-taught

## Languages

 Italian   ● ● ● ● ●

 English   ● ● ● ● ●

 French   ● ● ● ● ●

Hate Speech  
Recognition

### Text mining project

*Some already collected tweets have been analysed to create a machine learning model that recognise the hate speech situations into tweet messages.*

[Python](#)   [nltk](#)   [scikit-learn](#)   [NLP](#)

<https://github.com/MarcoP9/textmining>

Telegram bot

### Covid Italia News Bot

*A telegram bot that collects the daily data about Covid19 in Italy: cases, recovered, vaccines, etc.*

[Python](#)   [telegram.ext](#)   [matplotlib](#)   [AWS instance](#)

[https://github.com/Chri1629/covid\\_bot](https://github.com/Chri1629/covid_bot)

## Recreational Interests

Reading

Mainly science and fantasy novels but also essays

IT

Staying up to date with the recent technologies, in particular for AI and data science

Playing

I enjoy playing computer games, chess and the piano

Sport

I go swimming regularly

Travel

I love travel to discover new places and new cultures. I'm also an amateur drone photographer

## Certificates

English B1

### Business English Certificate (BEC)

Achieved during high school (2015)

Disability

### Certificate for restricted mobility

Inserted in "Categorie Protette" lists.