# Alessio Mancinelli

*Paciano, Umbria, Italy*

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## Personal Profile

A knowledge-hungry & music-lover young guy. Zealous about software engineering and with 2+ years of experience specialising in machine learning, python development and full-stack development. I also try to be a youtuber, freelancer, gamer and guitarist. Always focused on building awesome projects that can enrich my knowledge. Primarily, looking for Machine Learning / Data Engineer / Python Developer roles.

## Education

### Mathematics and Computer Science Department
*Perugia, IT*

MSc in Computer Science - Intelligent and Mobile Computing
*Sept 2019 - July 2021*

- 110/110 summa cum laude
- **Thesis**: An Argumentative Explanation of Machine Learning Outcomes.
- **Themese**: Explainable Artificial Intelligence, Machine Learning, Argumentation Framework, Knowledge Representation

### Mathematics and Computer Science Department
*Perugia, IT*

Bachelor's Degree in Computer Science
*Sept 2016 - Sept 2019*

- 108/110
- **Thesis**: Student Behaviour Models for a University LMS.
- **Themese**: Machine Learning, Behaviour Models, Data Analysis

### Istituto Omnicomprensivo Rosselli Rasetti
*Castiglione del lago, IT*

Scientific Diploma - Information Technology and Telecommunications
*Sept 2011 - July 2016*

- 100/100
- **Thesis**: Artificial Intelligence

## Work Experience

### Micra Software & Services - R&D Team
*Corciano, IT*

Software Developer
*Sept 2021 - Current*

- Collaborated with a four-person team to develop Machine Learning and Natural Language Processing models for solving real-world problems related to the legal field. Each model has an associated web interface based on Angular or JSF.
- Responsable for the innovation of existing products by integrating conversational Chatbots and custom made Name Entity Recognition Systems based on Spacy library and TINT.
- Tutor of PCTO students and interns; building of training courses on a github repository inside which there were lessons, tasks and projects to be completed.
- **Technical Skills:** Python, Pandas, Scikit-learn, Keras, Machine Learning, NLP, Java, HTML/CSS, Javascript, PHP, SQL, Angular, Git.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills, Report Writing.

### Fiverr
*Italy*

Freelancer
*Sept 2021 - Current*

- I'm offering my programming skills as a Freelancer to make Machine Learning based applications and Telegram Chatbots.
- Communication with the client to establish the work to be done, time required and available budget.
- **Technical Skills:** Python, MySQL, MongoDB, Sqlite, Git, Telethon, Chatbot, Machine Learning.
- **Soft Skills:** Time Management, Communication, Logical Thinking, Problem Solving.

### Mathematics and Computer Science Department
*Perugia, IT*

Researcher
*Gen 2021 - April 2021*

- Research on applications and state of the art of Explainable Artificial Intelligence; use of existing products and study of possible insights.
- In-depth study of Explainable By Design models such as Decision Trees and Rule-based Classifiers. Application of LIME to Neural Networks and Random Forest models.
- Confirmation that is possible to provide an explanation via Argumentation Framework.
- **Technical Skills:** Python, Explainable Artificial Intelligence, LIME, Watson, Spacy, Knowledge Representation.
- **Soft Skills:** Time Management, Communication, Problem Solving, Decision making.

### Mathematics and Computer Science Department
*Perugia, IT*

Programmer
*Dec 2017 - March 2018*

- Creation of a Plug-in for the E-Learning platform Moodle used by the University of Perugia.
- The plugin was similar to the popular *Kahoot* game, which allowed students to learn something new through gamification.
- **Technical Skills:** HTML/CSS, Javascript, PHP, SQL.
- **Soft Skills:** Time Management, Decision making, Presentation skills, Report Writing.

# Publications

**An Argumentative Explanation of Machine Learning Outcomes - PDF** *Cardiff, Wales*

Stefano Bistarelli, Alessio Mancinelli, Francesco Santini, Carlo Taticchi *30 Sept 2022*

Computational Models of Argument - Proceedings of COMMA 2022

**Hate Speech and Stereotypes with Artificial Neural Networks - PDF** *Malaga, Spain*

Giulio Biondi, Valentina Franzoni, Alessio Mancinelli, Alfredo Milani *23 July 2022*

Computational Science and Its Applications - ICCSA 2022 Workshops

**Behaviour Models for a University LMS - PDF** *Malaga, Spain*

Giulio Biondi, Valentina Franzoni, Alessio Mancinelli, Alfredo Milani *23 July 2022*

Computational Science and Its Applications - ICCSA 2022 Workshops

# Projects

**Gender Prediction - Binary Classification** *Exam project*

Mathematics and Computer Science Department

- Analysing written text from five different sources and discover patterns in relation to the two available classes.
- Apply feature engineering on text to create a dataset that will be used as input of a custom made Neural Network.
- **Technical Skills:** Python, NLTK, Scikit-learn, Keras, Word Embedding, Neural Network, Word2Vec.
- **Soft Skills:** Time Management, Presentation skills, Report writing.

**Booking Manager** *Exam project*

Mathematics and Computer Science Department

- Creation of a site based on AngularJS for reservations management.
- **Technical Skills:** HTML, CSS, Javascript, AngularJs, MySQL.
- **Soft Skills:** Presentation skills, Report writing, Leadership, Teamwork, Problem solving.

**Orders Management Bot** *Freetime project*

Fiverr

- Telegram Bot written in python that's able to manage a set of orders inside a local database.
- **Technical Skills:** Python, Sqlite, Theleton, SQL.
- **Soft Skills:** Problem Solving, Communication, Time management.

# Skills

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|---|---|
| **Programming** | Python (Pandas, Keras, NumPy, Scikit-learn, Telethon, PyMongo), Java, PHP, HTML/CSS, JavaScript, SQL. |
| **Miscellaneous** | Explainable Artificial Intelligence, Machine Learning, Natural Language Processing, Angular, Latex (Overleaf), Git. |
| **Soft Skills** | Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation, Report Writing, Critical thinking. |

# Interests

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|---|---|
| **Cooking** | I love cooking. I can make most Italian-style dishes and my own pasta. |
| **Video Games** | I always had the competitive gaming gene. I mostly play on my computer and my favorite genre is FPS. |
| **Gym** | I have my morning routine where i walk in the fresh air and do exercises. |
| **Music** | I started playing guitar when i was 15. I love going to concerts and listening to music while i'm coding. |
| **Youtube Videos** | I opened a youtube channel where i create programming video tutorials for my little community. |
| **Personal Finance** | I like to keep track of my income and expenses. I tend to be a frugal person and an investor. |

# Languages

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|---|---|
| **Italian** | Mother tongue |
| **English** | Professional proficiency |