Matteo Ciniselli

Personal Information

📍 Lugano, Switzerland

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🌐 www.inf.usi.ch/phd/cinism/

🔘 Github

Programming Languages

Python	★★★★★
SQL	★★★★☆
Visual C++/C#	★★★★☆
Java	★★★☆☆
HTML/CSS/JS	★★★☆☆
R/Matlab	★★★☆☆

Languages

Italian, Mother Tongue

English, Highly Fluent

French, Beginner

Summary

I'm an experienced programmer who loves statistics. During my working experience as Data Scientist and C# Developer, I did a Master in High Apprenticeship on Big Data.
I'm currently pursuing a Ph.D. in Computer Science in the Faculty of Informatics at the Università Della Svizzera Italiana (USI) in Lugano. Thanks to these experiences I have developed strong interpersonal and communication skills useful in teamwork, good time management skills, and excellent problem-solving skills.

Education

Ph.D. in Computer Science

May 2020 – Today   ***Università della Svizzera Italiana***

My Ph.D. is focused on employing Deep Learning models to support Code Completion. In my papers, I experimented with different DL models when predicting multiple contiguous tokens.

Master in High Apprenticeship in Analytics and Business Intelligence

July 2015 – July 2017   ***Polytechnic of Milan***

During this Master, I widely studied Big Data and Machine Learning topics.
I also realized a tool that uses NoSQL database (MongoDB) and Node.JS architecture with Angular to suggest the best choice (optimal solution of a problem) in the selection of a contract.

Master Degree in Mathematical Engineering, Statistical Address

October 2012 – April 2015   ***Polytechnic of Milan***

During my Master's Degree, I studied statistics at 360 degrees, enriching my knowledge with Data Analysis and Programming courses. I had the chance to work on different research projects.

Bachelor's Degree in Mathematical Engineering

September 2009 – September 2012   ***Polytechnic of Milan***

During my Bachelor's Degree, I studied the basics of Statistics and Programming.

Publications

An Empirical Study on the Usage of BERT Models for Code Completion, 2021 International Conference on Mining Software Repositories (MSR)

An Empirical Study on the Usage of Transformer Models for Code Completion, 2021 IEEE Transaction on Software Engineering (TSE)

To What Extent do Deep Learning-based Code Recommenders Generate Predictions by Cloning Code from the Training Set?, 2022 International Conference on Mining Software Repositories (MSR)

Work Experience

Data Scientist @ Machine Learning Center of Excellence
March 2019 – April 2020   ***Accenture***

- Realization of Neural Networks for Computer Vision (Faster-RCNN Object detector, Siamese Network, Inception)
- Development of REST API and Front-End with Flask, HTML, and Bootstrap to deploy Computer Vision services
- Development of a NodeJs Server that use DialogFlow API to understand the Intent of sentences and allow the user to interact vocally with the washing machine
- Realization of a chatbot and integration with ADFS to check the grants for using the chatbot
- Use of Docker to realize all projects in a safe environment

.NET Developer
October 2017 – February 2019   ***Aglea***

- Realization of internal tools in C# and study of authorization and security in SAP
- Implementation of a tool to manage activities in the company (purchasing, invoicing, device management) based on SQL database and DevExpress framework
- Realization of a tool for tickets management (read mail with Exchange, ticket generation and SLA/KPI management), and to automatically generate Excel Pivots using Excel API

Business Intelligence Consultant
January 2015 – September 2017   ***NextInt***

- Use of RapidMiner and R to find the less expensive solution to collect garbage from different warehouses (Travelling Salesman Problem)
- Realization of data models and generation of Dashboards and Reports with QlikView. Development of POCs with RapidMiner and integration with C++ and C#
- Realization of many projects for small/big customers to allow them to see corporate data and give them the possibility to use this data for making decisions. In some cases, implementation of custom code to add a new required feature (e.g. possibility to send custom emails)

Personal Interests

- Programming
- Neural Networks and AI
- Documentaries and shows on mentalism