



# Diego Biagini

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👉 [diegobiagini.github.io](https://diegobiagini.github.io)

## Profile

After obtaining a Master degree in Artificial Intelligence, I'm currently undertaking a doctoral program at TUM(Technische Universität München) as a member of the CAMP(Computer Aided Medical Procedures) research group under the supervision of Prof. Nassir Navab.

Exploring the potential of AI to enhance both our daily lives and business processes captivates me endlessly. I'm genuinely passionate about delving into uncharted territories within this field, where theory and practice merge seamlessly.

Independence is a defining trait of mine, and I take great pleasure in immersing myself in novel topics, always looking for the most cutting-edge research developments in any field as I try to shape them to my needs.

## Education

<b>Doctor of Philosophy, PhD in Computer Science</b> <i>Technische Universität München</i>	03/2024 – present Munich, Germany
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<b>Master Degree in Artificial Intelligence</b> <i>University of Bologna</i> 110/110 cum Laude	2021 – 2023 Bologna, Italy
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<b>Bachelor Degree in Computer Engineering</b> <i>University of Florence</i> 110/110 cum Laude	2017 – 2020 Firenze, Italy
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<b>Secondary School Diploma in IT</b> <i>ITTS Fedi-Fermi</i> 100/100	2012 – 2017 Pistoia, Italy
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## Certificates

### **Machine Learning Engineering for Production (MLOps) specialization**

*The specialization focused on topics pertaining to the entire Machine Learning lifecycle, from project scoping to data gathering and pipeline development to system deployment.*

### **TOEFL iBT Certificate**

*Score: 106/120*

## Professional Experience

### PhD Candidate and Research Assistant

Computer Aided Medical Procedure(CAMP) chair at TUM [↗](#)

03/2024 – present

Munich, Germany

### Research Intern

Rohde & Schwarz GmbH & Co. KG [↗](#)

03/2023 – 09/2023

Munich, Germany

The internship allowed me to explore the hottest topics in generative AI, namely all the ecosystem surrounding diffusion models, and apply it to the domain of microwave images acquired by the QPS body scanner.

### Data Science Consultant

LoopAI Group [↗](#)

09/2022 – 12/2022

The consulting activity focused on the development and testing of further features or algorithms for the Loop Q Unsupervised Cognitive Computing platform, its modules and plugins.

### Curricular Internship

is Tech s.r.l [↗](#)

06/2016 – 07/2016

Pistoia, Italy

## Languages

### Italian

● ● ● ● ●

### English

● ● ● ● ●

TOEFL iBT

### German

● ● ● ● ●

## Skills

### Computer programming

C, C++, Python, Java, PHP

### Building Machine Learning models

sklearn, Tensorflow, Pytorch, Jax

### Machine Learning applied to Natural Language Processing and Computer Vision

### MLOps/DevOps tools and technologies

Data versioning(DVC), Experiment Tracking (MLFlow), Pipeline Orchestration (Apache Airflow), TFX ecosystem, Containerization and Orchestration (Docker, Kubernetes)

### Databases

SQL, PostgreSQL

### Code Versioning Systems

git, github

### Data Visualization

matplotlib, seaborn

### Linux Systems Skills

## Awards

### LoopQ Prize 2022 Winner [↗](#)

30/06/2022

LoopQ Group

Winner of the 2022 LoopQ Prize challenge.

The task consisted in developing a Speech Emotion Recognition system using machine learning/ deep learning techniques.

## **Projects**

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### **Extraction of Bibliographical Information from Conference Proceedings**

*Bachelor Thesis for the University of Florence*

Given a sizable set of scientific documents transcribed using OCR without human curation extract relevant and correct information. This was achieved through the use of techniques from data mining and simple machine learning algorithms.

**More on my github** [↗](#)