



# Andrea Simioni



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 I graduated with full marks in computer engineering from the university of Florence. My interests are in machine learning, data science and human-computer interaction. I produce electronic music and I am passionate about photography. Currently i'm working as AI and full stack software engineer (R&D team - Enterprise - B2C) in Sintra Digital Business.

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- 📅 May 26, 1994
- 🇮🇹 Italian
- 🔗 <https://andreasimioni.github.io/andrea-simioni-portfolio/>

## SKILLS

- Programming Languages: C#, Python, PHP, SQL, JavaScript, Typescript, Bash, HTML
- Databases : MySQL, PostgreSQL, MongoDB, Azure Storage
- Azure, DevOps, Docker, Kubernetes, Git, Pimcore, Auth0
- BI : Power BI, Google Data Studio
- AI, Machine learning and deep learning
- AI Libraries and tools: TensorFlow, Torch, Scikit-Learn, Pandas, Numpy, Keras, OpenCV, Langchain, Transformers, Jupyter Notebooks
- Full Stack Development: .NET, Node.js (Express, Nestjs), FastAPI, Vue.js, React.js
- Azure services: Data Factory, Azure Functions, Storage, Service Bus, Container Registry, AI Foundry

## LANGUAGES

- Italian | Native
- English | Advanced

## EXPERIENCE

- Jul 2021 Present  
**AI AND FULL STACK SOFTWARE ENGINEER Sintra Digital Business. Arezzo, Tuscany, Italy**  
**Summary**  
 Specialized in developing innovative solutions, proof-of-concepts, and data integration systems. Skilled in cloud platforms (Azure) , automation, AI/ML, and full stack development. Experienced in mentoring and university lecturing on deep learning and AI applications.  
**Key Projects & Achievements:**
  - **AI & Machine Learning:** Developed AI/ML solutions for customer churn prediction, forecasting, and customer segmentation (RFM matrix, clustering). Used Azure AutoML for forecasting and baseline modeling; implemented custom churn pipelines on highly imbalanced datasets using Neural Networks and ensemble models, imblearn, hyperparameter tuning, and covariance-driven feature selection.
  - **Generative AI:** Developed private LLM-based solutions, including agentic RAG architectures and AI agents, using Microsoft Copilot Studio, Azure AI Foundry, and LangGraph, with strong expertise in prompt engineering.
  - **Dashboards and data analytics:** Developed data analytics dashboards using Power BI and Azure Functions, integrating ML outputs (AutoML, clustering, RFM) to support data-driven business decisions.
  - **Full-stack development:** Designed and developed scalable, cloud-native web applications using .NET, Vue.js, React.js, Node.js, and Azure services, based on REST APIs, microservices, and event-driven architectures. Implemented OAuth-based authentication, CI/CD pipelines, and B2C / e-commerce integrations (Shopify).
  - **Cloud Automation Platform :** Designed and implemented a platform for deployment and infrastructure management on Azure Kubernetes with CI/CD and Key Vault.
  - Provided **IT consulting services for Prada S.p.A**, supporting internal systems (.NET, Angular) and digital infrastructure.
  - **Tutoring & Lecturing :** Supervised theses on forecasting, RPA, LLM and Agentic solutions. **Delivered lectures on deep learning** at the University of Rome Tor Vergata, University of Pisa and Rome's Microsoft Headquarters.
  - Explored and experimented with **cutting-edge and emerging technologies** (e.g., AI-powered coding assistants like Cursor) to evaluate potential applications and boost software innovation.

## EDUCATION

- Feb 2022 May 2022  
**EXECUTIVE MASTER, DATA SCIENCE, BIG DATA & ARTIFICIAL INTELLIGENCE PER LA FINANZA 24ORE Business School .**  
**Thesis:** Stock price prediction algorithm in Python from financial historical series using ARIMA models and dense neural networks.  
**Main Themes:**
  - Data Preprocessing and cleaning
  - Model training for regression and classifications
  - Crisp-DM method
  - Data science real use cases in finance
  - SQL, NoSQL and Python
- Feb 2018 Apr 2021  
**MASTER'S DEGREE Università degli studi di Firenze.**  
**Field of study:** Computer Engineering  
**Final Grade:** 110/110  
**Thesis:** SAR image despeckling by means of deep learning methods

## CERTIFICATIONS & COURSES

- **SDA Bocconi - School of Management**  
 IL Business Plan. Come Tradurre un'idea in un progetto imprenditoriale.

## HOBBIES AND INTERESTS

### Music and photography

I produce electronic music mainly related to the techno and ambient genre. I am the co-owner of Blame Rec, a record label whose aim is to promote the total creative expression of new artists.

Also, I am very passionate of landscape photography.

### Sports and physical activity

I've been going to the gym for 8 years and I've also been doing CrossFit regularly for 6 years. In 2009 I obtained the PADI Advanced Open Water Diver and Enriched Air Diver certificates.

