

Niccolò Ciucci Colli

Rome, Italy

PhD student in **Artificial Intelligence** at UnitelmaSapienza, Rome, selected for the national interest program. With a mixed background in **Applied Mathematics** and **Computer Science**, my research focuses on the application of advanced artificial intelligence techniques for anomaly detection and churn prediction through time series analysis and customer/product clustering. I leverage real-world data from the marketing department of a company to develop AI models aimed at optimizing customer retention and implementing personalized recommendation engines.

EDUCATION

- **PhD in Artificial Intelligence** 2024-2027
DSGE, UnitelmaSapienza
Coursework: Machine Learning, Neural Networks, Big Data Computing, Artificial Intelligence, Formal Methods, Incomplete Data, Advanced Reinforcement Learning, Large Scale Data Management.
- **MS in Management Engineering – Business, Intelligence & Analytics**
DIAG, Sapienza University of Rome GPA: 3,9
Coursework: Optimization methods for Machine Learning, Deep Learning, Reinforcement Learning, Data Mining, Probabilistic Models for Finance, Game Theory, Continuous Optimization, Combinatorial Optimization, Operation Management.
Thesis: *Multi-Market Portfolio Optimization - A Reinforcement Learning Perspective*
- **BS in Management Engineering**
DIAG, Sapienza University of Rome GPA: 3,9
Coursework: Probability Theory and Statistics, Linear Algebra, Operation Research, Microeconomy.

PROFESSIONAL EXPERIENCES

- **Business Intelligence** 2023 - 2024
Reply, Rome
Managed end-to-end data processes for major clients using Microsoft Power Platform and Azure Synapse Analytics. Optimized ERP data handling and delivered actionable insights, enhancing efficiency and decision-making for data-driven operations.

SKILLS

Python, SQL, Machine Learning, Deep Learning, Reinforcement Learning, Neural Network, PyTorch, Scikit-Learn, Numpy, Pandas, MS Office, MS Power Platform, Organizational and Planning Skills, Continuous Learning.

LANGUAGES

- **Italian** - Mother tongue.
- **English** - Full professional knowledge.