


## Objective

Seeking a Machine Learning Engineer, AI Research, or Software Engineering position where I can apply my expertise in deep learning, natural language processing, and computer vision to build innovative AI systems and scalable software solutions. Interested in applications spanning healthcare, research, and industry.



## Education

- MSc**    **University of Amsterdam**, [Artificial Intelligence](#)    *Sept 2025 - Present*
- **Main Coursework:** Machine Learning 1, Deep Learning 1, Computer Vision, Natural Language Processing, and Reinforcement Learning
- BS**    **University of Pisa**, Computer Science    *Sept 2021 - Nov 2024*
- GPA: 4.0/4.0 ([grading system](#))
  - **Main Coursework:** Programming and Algorithm Design, Linear Algebra, Calculus, Numerical Calculus, Statistics, Introduction to Artificial Intelligence

## Experience

- Wylit** , Full Stack Developer    *Remote - On site (Hybrid)  
Sept 2021 - Present*
- Designed and developed client platforms using React, Node.js, and PostgreSQL, streamlining workflows and enhancing client engagement while boosting operational efficiency
  - Managed server infrastructure and deployments for 15+ client projects across multiple platforms, handling both client-side and server-side architecture using Docker and modern DevOps practices
  - Implemented performance optimizations for web applications, achieving 40% reduction in loading times and improved responsiveness through full-stack optimization techniques

## Projects/Publications

- Nov 2024 **MEDICA: A Machine Learning Pipeline for Multiple Sclerosis Biomarker Discovery** 
- Presented at the 20th Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics [CIBB 2025](#), integrating data-driven and model-driven approaches for biomarker identification in multiple sclerosis
  - Developed interpretable machine learning models using XGBoost and SHAP for single-cell RNA sequencing data, identifying potential MS biomarkers with explainability metrics
  - Pre-processed and analyzed single-cell sequencing datasets using Python, scikit-learn, and statistical methods, comparing explainable AI techniques to traditional statistical approaches
- Jun 2024 **TeleSpace: A New Way of Exploiting Telegram** 
- Developed a full-stack platform with Rust backend and React frontend enabling unlimited data upload via Telegram Bot APIs, supporting files up to 2GB per chunk
  - Engineered an efficient Rust-based file splitting algorithm to divide large files into Telegram-compatible chunks with automatic reassembly capabilities
  - Built a RESTful API in Rust with asynchronous request handling for chunk-by-chunk uploads and implemented a Redis-based queue system to manage concurrent user uploads across multiple worker instances

## Skills and Interests

**Languages:** Italian (Native), English (C1)

**Programming Languages:** Python, Rust, R, Java, JavaScript

**ML/AI Frameworks:** PyTorch, scikit-learn, XGBoost, Langchain, SHAP

**Web Technologies:** React, Node.js, REST APIs, PostgreSQL

**Tools & Platforms:** Git, Docker, Linux, Redis, Jupyter