Gianluigi Palmisano

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Projects

RAG-based Question Answering System — NLP project 2025

- Advanced NLP implementation showcasing Retrieval-Augmented Generation (RAG), topic modeling, and transformer-based question answering using Gemma and T5 models on the *neural-bridge* dataset.
- Tool used: pytorch, scikit-learn, bertopic, transformers, nltk

Real Estate PRO — Personal Project 2025

- AI agent-powered real estate chatbot built with LangChain, leveraging advanced LLM-driven tool orchestration for seamless, location-aware property recommendations.
- Tool used: langchain, FAISS, streamlit, geopandas

Artificial Neural Network and DL Homeworks — AN2DL Homeworks 2024

- *Blood Cells Classification* Classification of images of blood cells into eight distinct classes, each representing a particular cell state.
- *Martian Terrain Semantic Segmentation* Ensemble model for segmenting grayscale Martian terrain images. The ensemble combines multiple U-Net models with custom enhancements to improve segmentation accuracy.
- Tool used: Tensorflow, Keras

ML Credit Card Fraud Detection project — NAML Project 2024

- Led a project focused on credit card fraud detection. The study addresses the critical issue of identifying fraudulent transactions within a highly imbalanced dataset, using various machine learning methodologies, and finding that an ensemble method can improve key performance metrics.
- Tools Used: Numpy, Pandas, Scikit Learn, SMOTE

Education

Politecnico di Milano, MSc in Computer Science and Engineering- Artificial Intelligence — Sept 2023 – Ongoing

Politecnico di Bari, BSc in Computer and Automation Engineering — Sept 2020 – Jul 2023

Technical Skills

- **Languages**: Python (Libraries: NumPy, Pandas, Matplotlib, plotly.express), Java (OOP)
- **ML Frameworks**: scikit-learn, TensorFlow, Keras, Transformers (Hugging Face), LangChain, NLTK
- **Data Handling**: SQL (Relational Databases: MySQL), Spark, MongoDB, Neo4J, Elasticsearch
- **Software Development & Tools**: Git, API (Google Cloud Platform), Jupyter Notebooks, Docker

Soft Skills

- **Verbal Communication**: Public speaking, presentation skills, technical explanations
- **Written Communication**: Report writing, email correspondence, technical documentation
- **Interpersonal Skills**: Team collaboration, conflict resolution, active listening, Agile methodologies
- **Problem Solving**: Analytical thinking, innovation, practical implementation

Languages

- Italian (Mother tongue)
- English (B2 - Certification: IELTS 6)