MICHAEL ALIBEAJ

M.Sc. Student of Computer Science

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SUMMARY

M.Sc. student in Big Data and AI focused on data analysis and software development. Awarded multiple scholarships and top placements in technical competitions. Experienced in applying data and machine learning methods to real-world problems, improving decision-making and user outcomes through accurate, reliable insights.

EDUCATION

M.Sc. in Computer Science: Big Data and Data Science

Polytechnic of Milan

Present Milan, Italy

- Focus on AI, Big Data and Data Science
- Awarded Full Academic Scholarship
- Relevant coursework: Data Mining, Business Informative Systems, Deep Learning and Performance Evaluation and Applications

B.Sc. in Computer Science

Polytechnic of Milan

2020 - 2024 Milan, Italy

- Awarded Full Academic Scholarship

Scientific High School

Liceo Scientifico Leonardo da Vinci

2015 - 2020 Villafranca in Lunigiana, Italy

- Elected Class Representative (2016–2020)

KEY ACHIEVEMENTS

DMFW Challenge (Polytechnic of Milan) - 1st Place

Awarded 1st place in the Data Management for the Web challenge organized by the Polytechnic of Milan, competing with 100+ participants.
Delivered an AI agent that automated call management and scheduling for real estate agencies, improving realtor efficiency.

AN2DL Challenges - 2nd Place

Awarded 2nd place in the AN2DL challenge organized by the Polytechnic of Milan, competing with 800 participants.

Italian Mathematical Olympiad – Regional Qualifier

Ranked in the top 10% in the Italian Mathematical Olympiad among 500+ participants.

TECHNICAL SKILLS

Programming

C Python Java Alloy

Analytics & Visualization

SQL Matplotlib PowerBI Excel

LANGUAGES

Italian	Native	**Albanian**	Native
English	Proficient	**French**	Intermediate

INTERESTS

Car Enthusiast **Football Goalkeeper**

REFERENCES

Donatella Sciuto - Rector of PoliMi

Recommendation Letter

RELEVANT EXPERIENCE

Staples - Polytechnic of Milan

09/2025 - Present

https://www.som.polimi.it/en/staples-strengthening-resilience-of-cereal-value-chains/

- **Developing** a data-driven analytics platform (Decision Support & Early Warning System) using agricultural and economic data across 6 countries (MENA region) to support supply chain and trade decisions.
- Designing data ingestion and transformation pipelines in Python for external public datasets (FAOSTAT, UN Data).
- Creating KPIs and metrics for crop storage, pricing trends, and risk prediction to support stakeholders.
- Enabling data-driven policy planning by integrating data pipeline outputs into dashboards.

Retrieval-Augmented Q&A Platform

Python

05/2025

https://github.com/MikeTech01/NLP

- Led a team of 5 to build an end-to-end RAG pipeline combining retrieval and large language models for question answering.
- Processed over 50,000 unstructured documents, improving search relevance by 28% using FAISS indexing.
- Built data preprocessing pipelines including tokenization, chunking, and embedding storage.
- Reduced system latency by 35% and enabled scalable deployment via a modular architecture.
- Drove team execution and ensured code quality using Git and GitHub CI workflow.

Deep Learning for Vision

Python: NumPy, Keras, TensorFlow, Pandas, Scikit-learn, Matplotlib

11/2024

https://github.com/MikeTech01/AN2DL

- Achieved **top 1% leaderboard ranking** among 800+ participants
- Implemented and evaluated **deep learning models** for image classification and semantic segmentation.

Performance Evaluation and Applications

Python: NumPy, Matplotlib, SciPy

09/2024

https://github.com/MikeTech01/Performance-Evaluations-and-Applications

- Implemented performance-modelling techniques (workloads, queueing models, stochastic simulation, data fitting).
- Demonstrated competence in quantitative system performance analysis, stochastic modelling and work with open/closed and multi-class queueing systems.

Route Search

C

09/2023

https://github.com/MikeTech01/API

- Achieved full marks, ranking in the **top 5%** of the class.
- Developed a routing system for vehicles on highways.
- Implemented Red-Black Trees, doubly linked lists, and LIFO stacks to manage stations and calculate optimal routes under vehicle autonomy constraints.