






ALESSIO LUCCIOLA

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EDUCATION

- **Sapienza University of Rome: Master's Degree in Computer Science** *Oct 2024 | Grade: 110 with honors*
Machine Learning, Deep Learning, Data Analysis, Cloud Computing, Blockchain and Distributed Ledgers
Master's Degree in Computer Science focusing on Machine Learning and Deep Learning, taught in English.
- **Sapienza University of Rome: Bachelor's Degree in Computer Science** *Mar 2022 | Grade: 103*
Software Engineering, Algorithms and Data Structures, Database, Calculus, HCI, Automata, Computability and Complexity
Bachelor's Degree in Computer Science covering main computer science concepts, taught in Italian.

EXPERIENCES

- **GeneroCity** *Nov 2021 - Mar 2022*
Backend Developer | Go, SQL, Docker, Postman, MinIO
I completed an internship at GamificationLab, a research lab at Sapienza University of Rome focused on web application development. My main role was developing APIs for a smart parking app called GeneroCity.

PROJECTS

- **TA-EPE: A Transformer-based Approach to EEG Personality Estimation**
Python, PyTorch, Deep Learning, Data Analysis, Brain-Computer Interface
This project explores using Transformer architectures for personality estimation from EEG data, demonstrating the effectiveness of deep learning in tackling the complexities of brain signals and improving prediction accuracy.
- **Deep Learning Skin Lesion Classification**
Python, PyTorch, Deep Learning, Data Analysis, Computer Vision, Generative AI
This project classifies seven skin lesion types using the HAM10000 dataset, featuring Semantic Segmentation, CNNs, and Vision Transformers. It also includes StyleGAN synthetic image generation for data augmentation.
- **Airbnb Price Prediction**
Python, PySpark, Machine Learning, Data Analysis, Big Data, Javascript, React.js, SCSS, Django, Docker
This project builds a price predictor for Airbnb listings using Machine Learning techniques and PySpark. Trained on data from Inside Airbnb, it aggregates over 320k instances from European cities for evaluation and testing.
- **Multimodal Advertisement Sentiment Analysis**
Python, PyTorch, Deep Learning, Sentiment Analysis, Computer Vision, Face Detection, Audio Processing, Multi-Modality
This project aims to develop an emotion recognition system to analyze user reactions to video advertisements, helping determine the optimal timing for ad interruptions and tailoring ads based on emotional responses.

For more projects and details, please visit my [portfolio](#) or my [Github page](#).

SKILLS

Languages: Italian (native), English (B2 - FCE Cambridge), Spanish (B1 - DELE), French (B1 - DELF)

Tech stack:

- **Languages:** Python, Go, Javascript, Typescript, Java, Solidity, \LaTeX
- **Frontend:** HTML, CSS, SCSS, React.js, Next.js, ReactNative, Tailwind, Bootstrap
- **Backend:** Node.js, Express.js, Django, FastAPI, SQL (PostgreSQL, MySQL), HardHat, Strapi
- **Data Science:** PyTorch, PySpark, ScikitLearn, Matplotlib, Seaborn, Pandas
- **Others:** Docker, AWS (ECS, RDS, S3), Postman, K6, Terraform, Microsoft Office Suite, Adobe Photoshop, Adobe Lightroom, Marvel App, Git (GitHub, GitLab)