Riccardo Franceschini

Location: Barcelona, ES | Mail : riccardo.franceschini@live.it | LinkedIn : linkedin.com/in/ricfrr/
Portfolio: riccardofranceschini.com | Publications: Scholar Profile

Experience

Robotics & AI @ Eurecat *Jul 2021 - Present*

- Led end-to-end data pipelines for collection, curation, fine-tuning, and deployment of vision and large language models.
- Designed and deployed advanced autonomy algorithms (full + shared autonomy), from sensor data processing to high-level decision-making.
- Built and optimized perception modules including localization, object detection, tracking, and planning on embedded hardware across both NVIDIA and non-NVIDIA platforms.

Technology used: *C++, Python, Pytorch, ROS1/2, OpenCV, Open3D, Docker, Git, BeahviourTree, Numpy, CI/CD*

Deep Learning Researcher @ University of Trento *Jan 2021 - Jul 2021*

- Researched unsupervised multimodal attention methods combining text, audio, and video for emotion recognition in human-robot interaction.
- Managed the full ML lifecycle: dataset creation, filtering, model architecture design, training, and experiment tracking.

Technology used: *Python, Pytorch, Numpy, Sci-kit, Pandas, Docker, Git*

Deep Learning Researcher @ FBK *Oct 2020 - Dec 2020*

- Developed unsupervised human pose keypoint estimation models using generative adversarial networks for an industrial client.
- Evaluated performance against state-of-the-art methods and delivered actionable insights.

Technology used: *Python, Pytorch, Numpy, Sci-kit, Pandas, Git*

Deep Learning Researcher @ Bosch *Feb 2020 - Oct 2020*

- Built deep learning attention-based models for predicting pedestrian and vehicle trajectories in autonomous driving scenarios.

Technology used: *Python, Pytorch, Docker, Git*

Education

PhD, Robotics & AI @ Danish Technical University & Eurecat (MSCA-ITN) *2021 - 2024*

- Designed AI-enabled autonomy and AR interaction tools to make drone teleoperation safer, more intuitive, and more efficient for real-world inspections.

MSc, Autonomous Systems @ University of Trento (Italy) & Aalto University (Finland) *2018 - 2020*

- **Major**: Robotics & AI | **Minor**: Business & Entrepreneurship
- Final grade : 110/110 cum Laude

BSc, Computer Science @ University of Trento (Italy) *2015 - 2018*

- *Final grade : 110/110*

Skills

Machine Learning: PyTorch, Vision Models, Attention, Multimodal Models, Unsupervised Learning
Engineering: C++, Python, ROS1/2, Docker, CI/CD, Behavior Trees, Embedded Deployment
Tools: OpenCV, Open3D, Git, Scikit-learn, NumPy, Pandas, Unity3D, Git
Languages: Italian (Native), English (Pro), Spanish (Pro), Catalan (Basic)