

Anil Egin

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Education

Sapienza University

Master of Science in Artificial Intelligence and Robotics

Coursework: Computer Vision, Robot Programming, Natural Language Processing, Reinforcement Learning, Autonomous and Mobile Robotics

Sep 2025 – Sep 2027

Rome, Italy

Bocconi University

Bachelor of Science in Computer Science and Artificial Intelligence

Coursework: Mathematical Analysis and Optimization, Advanced Programming, Statistics, Machine Learning, Neuroscience, Quantum Physics

Thesis: Multi-Stage Anonymized Video Synthesis Using Motion Transfer via Generative AI

Sep 2021 – Sep 2025

Milan, Italy

Publications

Egin, A., Tangherloni, A., & Dantcheva, A. (2025).

“Now You See Me, Now You Don’t: A Unified Framework for Expression-Consistent Anonymization in Talking Head Videos”.

IEEE/CVF International Conference on Computer Vision (ICCV) 2025, Workshop on Computer Vision for Biometrics, Identity & Behaviour (CV4BIOM) — **Oral Presentation**, Hawaii, USA. [Project] [Code]

Technical Skills

Programming: Python, C++, C, SQL, R

Frameworks/Tools: PyTorch, TensorFlow, OpenCV, ROS2, Gazebo, pandas, Git, Docker, PowerBI, QuickSight

AI/ML: Computer Vision, Natural Language Processing, Generative AI, Fine Tuning, RAG

Languages: English: Fluent, Turkish: Native, Italian: Intermediate

Experience

Research Assistant

VRAI Lab, Vision Robotics Artificial Intelligence

Supervisor: Prof. Rocco Pietrini

Feb 2026 – Present

Rome, Italy

- Worked on building a **multi-view video synchronization pipeline** across different camera setups, using segmentation masks, point tracking, and cross-view matching, reaching around **100 ms** synchronization error.
- Conducted image-based color analysis experiments for armocromia research, evaluating skin, hair, and palette features for personalized color recommendation systems.

AI Researcher Intern – Computer Vision

INRIA, STARS Team

Supervisor: Dr. Antitza Dantcheva

Nov 2024 – May 2025

Sophia Antipolis, France

- Developed a **talking-head video anonymization** framework on Jean Zay HPC, achieving a < 0.1 re-identification rate while preserving expression consistency.
- Collaborated with Dr. Clémentine Vincent on a facial treatment-planning model, training a **region-based graph neural network** on 2,000+ expert annotations to predict facial treatment regions and procedure categories.
- Researched **GAN inversion** in **StyleGAN3** for controllable face identity manipulation while preserving background and pose.

Business Intelligence Engineer Intern

Amazon

- Modeled a pipeline implementing **BERTopic** on **50,000+** Amazon.it Trustpilot comments to analyze customer pain points.
- Created GameX WBR by developing and optimizing **SQL** queries on large-scale data clusters, decreasing runtime by $> 30\%$.
- Built **10+** automated KPI reports and **QuickSight** dashboards using scheduled jobs.
- Designed pricing dashboards for 3 marketplaces, incorporating competitiveness and coverage metrics, and conducted competitor analysis for expansion into Portugal.

Jun 2023 – Dec 2023

Milan, Italy

Projects

AnonNET: Facial Video Anonymization | Python, PyTorch, Stable Diffusion, ControlNet, OpenCV

[GitHub](#)

- Developed a talking-head video anonymization framework that replaces facial identity while preserving expressions, pose, and demographic attributes using diffusion inpainting, ControlNet conditioning, and landmark-free motion transfer.

Facial Botox & Filler Treatment Planning | Python, PyTorch, GNNs, MediaPipe, ArcFace

- Built a GATv2-based facial analysis system over 468 FaceMesh landmarks, combining geometric features and ArcFace embeddings to model treatment-region and dosage prediction.

TurtleBot3 Navigation Metrics | ROS2, Nav2, Gazebo, Docker, PyTorch

[GitHub](#)

- Designed an adaptive ROS2 navigation framework that monitors robot performance metrics and uses LSTM-based risk-factor assessment to dynamically adjust control and path planner behaviors, improving recovery handling and navigation robustness in constrained environments.

Semantic Retrieval & LLM Fine-Tuning | PyTorch, Transformers, BGE, MiniLM, SentenceTransformers

[GitHub](#)

- Fine-tuned **BGE/MiniLM** semantic retrieval models with hard-negative mining, cross-encoder re-ranking, and LLM fine-tuning on **CINECA HPC**, achieving 68.4% Hit@1 retrieval accuracy while reducing context length by 44% through dynamic re-chunking.