TARIK EGE EKEN

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Website / Portfolio : **egeeken.github.io**

LANGUAGES

- **English** (🇬🇧): Fluent
- **French** (🇫🇷): Fluent
- **Turkish** (🇹🇷): Fluent

TECHNICAL SKILLS

Coding Languages
- Python (PyTorch, NumPy, Pandas, etc.)
- Java, C, C#, SQL, Shell, OCaml, GAML
- HTML, CSS, JS, Flask

Frameworks
- Git, Docker, MLflow, Kaggle, Gradio, LangChain
- Ollama, Hugging Face Spaces, Scikit, Keras
- GPT4All, ComfyUI (Stable Diffusion)

Software
- Microsoft Excel, LibreOffice Calc, Google Suite
- Unity, Godot
- Adobe Premiere Pro, After Effects, Edius
- Adobe Photoshop, Illustrator, DxO Photolab

OTHER SKILLS AND INTERESTS

I highly recommend you check out
my portfolio: **egeeken.github.io/portfolio**

Artistic Skills
- Violin, I'm violin 1 in a symphony orchestra
- Piano, Drums, Music Theory
- Video Editing, Photography, Photo Editing
- Drawing (Graphite), Painting (Watercolor)

Other Skills and Interests
- Chess (top 2.5% worldwide)
- Speed typing (top 0.3% worldwide)
- Scuba Diving (Certified CMAS 1* & PADI AOWD)

EDUCATION

2024-2026 — SORBONNE UNIVERSITÉ
MASTER'S IN COMPUTER SCIENCE, SORBONNE UNIVERSITY
AI2D Program (Specializing in Artificial Intelligence)
Supervised/Unsupervised/Reinforcement Learning, Multi-Agent Models and Simulations, Human-AI Interaction, Image Processing, AI for Robotics, Multimodal AI Adaptation, Optimization

2021-2024 — SORBONNE UNIVERSITÉ
BACHELOR'S IN COMPUTER SCIENCE, SORBONNE UNIVERSITY
Data Science, Database Management, Data Structures and Algorithms, Web Development, Client-Server Architecture, Concurrent Programming

PROFESSIONAL EXPERIENCES

2025
OUTLIER AI
I refined LLM behaviour by providing high quality feedback and detailed corrections for RLHF as an Independent Contractor

2019-2021
UMEDYA
I edited videos for high profile clients and events. Produced music, participated in on-site design, management and translation in events

PROJECTS
Portfolio: **egeeken.github.io/portfolio-CS**

LOCALLY TRAINED LLM CHATBOT FROM SCRATCH
- I built a complete chatbot model in **PyTorch** from scratch, modeled after the **GPT2-Small** (124M) architecture
- I optimized it with modern findings like better hyperparameters, weight decay, learning rate scheduling, mixed-precision etc.
- I did it all locally on my laptop, including using Llama-3-8B to generate a training dataset as a supervised finetuning (SFT) pipeline for chatbot (input/output) format

LOCALLY TRAINED SKETCH TO IMAGE GENERATOR FROM SCRATCH
- I built a custom **GAN** model that turns bird sketches into photos
- I implemented adversarial training using a **U-Net Generator** and a **PatchGAN** discriminator
- I utilized a full MLOps stack: **Kaggle, Docker, MLflow, Gradio, HF Spaces**

ACTIVE PERCEPTION USING VLM, ISIR
- I worked with a team at the Institute of **Intelligent Systems and Robotics** under supervision of the director of the institute
- I applied multimodal language models to robotics tasks
- I built a voice/image interface for local vision language models using **FastRTC, Gradio** and **Ollama**
- I evaluated and benchmarked various open source and SOTA models

STUDENT ASSOCIATION ADMINISTRATOR, AMEVS
- I managed the student association for music and charity
- I won the **2024 Institute of France Grand Prize of 100,000€** in funding

PROBABILISTIC BRUSH COMPRESSION
- I designed a new lossy image compression algorithm
- I deployed a demo hosted on **HF Spaces** with a **Gradio** interface