Eyal Benaroche

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ML Engineer - End of Study Internship

EDUCATION

Ecole Polytechnique, Engineering school

Palaiseau, France

2021 - 2025

Engineering Degree; Outstanding Investment Award

Major in Computer Science, Computer Vision

• Courses: Machine & Deep Learning, Analysis of shapes, Digital Representation of Shapes, Advanced Deep Learning, Advanced Machine Learning and Autonomous Agents, Text Mining and NLP, Real-time AI in video games, IoT, Visualization, Conception of Algorithms, Markov Chains...

Mines Paris - PSL Paris, France

Engineering Degree

2024 - 2025

Major in Computer Science, Optimization for Machine Learning

Lycée Hoche, Classe Préparatoire

Versailles, France

PCSI - PSI

2019 - 2021

Post-secondary 2-year study which acts as an intensive preparatory course training students for enrolment in one of the top-level engineering schools in France

Experience

Clipdrop by Jasper

Paris. France

Research Scientist Intern

April 2024 - Sep 2024

- Trained different Image Adapter models of various size based on different embedders (Dino-V2, StyleShot, Clip-H,L...) for image conditioning in diffusion models in stylization task
- Incorporated inversion techniques with adapters to improve the style matching with a demo available at https://huggingface.co/spaces/jasperai/inversion-instantstyle
- Contributed to FlashDiffusion Paper (distillation for acceleration of diffusion models) arXiv:2406.02347
- Published demo about LoRAs compatibility for distilled student model without retraining (FlashDiffusion)
- Developed a unified benchmarking tool to evaluate the styling capabilities of different training-free diffusion models available at https://gojasper.github.io/style-rank-project/

Fujitsu Limited

Tokyo, Japan

Research Scientist Intern

Jun 2023 - Sep 2023

 AI Research in object detection and data augmentation, improve logo detection technique using synthetic dataset made with diffusion model and deterministic algorithm constraints. Explore Controllability of diffusion models.

Computer Science Council

Ecole Polytechnique, France

System Administrator & Treasurer

Nov 2022 - Dec 2023

- Provided services (Gitlab, Nextcloud, cloud computing, etc.) to the student body through the Binet Réseau.
- Continuous Integration setup for homemade social network
- Manage over 70 VMs/30 servers with Proxmox Hypervisor and SaltStack

Cours Eric Tabarly, Esperance Banlieues

Toulon, France

Teacher

Oct 2021 - Apr 2022

• Worked for children coming from tough neighborhood and with multiple liabilities (from dyslexia to drugs) and improved the school's IT infrastructure

SKILLS

Computer: PyTorch, OpenCV, FastAPI, Linux, blender, C++, Svelte, Git, slurm, Docker, d3-js, TypeScript, Haskell,

Languages: French (Native), English (111 TOEFL), Spanish (Intermediate), Japanese (Beginner)

Hobbies