Marvin Martin (He/Him)

3+ years of Machine Learning Experience

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EDUCATION

Boston University — Boston, MA
M.Sc. in Computer Information Systems — 01/2021-09/2021
- Major: Data Analytics, GPA 4.0
- Relevant Coursework:
  Analysis of Algorithms, Big Data Analytics,
  Machine Learning, and Deep Learning.

Ecole Centrale d'Electronique — Paris, FR
M.Sc. in Computer Information Systems — 09/2018-12/2020
- Major: Data Science, Grade A (Top 5%, 16.8/20)
- Relevant Coursework:
  C, Python, Advanced Database, DevOps, Physics,
  Cloud computing, Calculus, Algebra.

INSEEC London — London, UK
Undergraduate Studies (Non-graduating) — 01/2019-05/2019

Heriot-Watt University — Edinburgh, UK
B.Sc. Combined Studies (Non-graduating) — 01/2018-05/2018

ISEP — Paris, FR
Preparatory Cycle (Non-graduating) — 09/2016-09/2018

EXPERIENCE

META PLATFORMS INC — New-York, NY, USA
Software Engineer, Machine Learning — 01/2024-Present
META Core Ads Growth Team (Ads Ranking).
- Machine Learning R&D for Ads Ranking and GenAI.

Wardrobe LLC — New-York, NY, USA
Platform Developer – E-Commerce — 11/2023-01/2024
Wardrobe NYC Luxury, sustainable urban fashion essentials.
- Platform development, and system maintenance.

Vic.ai (Startup - Series C) — New-York, NY, USA
Machine Learning Engineer — 11/2021-08/2023
Vic.ai builds AI-based autonomous accounting systems.
- Leveraging Large Language Models (LLM) for accounting.
- Train CV/NLP Models for PO/Invoice processing.
- ML Infrastructure (Lambda, SageMarker, Kubernetes).
- Support +20,000 models training bi-weekly (+800%).

Centre Securite Requin — New-York, NY, USA
Machine Learning Engineer Consultant — 11/2020-Present
CSR is a public research center that studies shark attacks.
- Computer Vision (CV) for shark classification task.
- Build Deep Neural Network for underwater (CNN/ViT).
- Research related to Adversarial Domain Adaptation.

Heuritech — Paris, FR
Training Data Operator Intern — 04/2020-08/2020
Heuritech builds visual recognition and trend forecasting
technologies for fashion industry.
- Trained and evaluated Deep ConvNets.
- Active Learning research on acquisition functions.

Lectra, Innovation Lab — Bordeaux , FR
Lab Intern — 05/2019-06/2019
Lectra develops systems for the textile industry.
- Explored Generative Adversarial Network for fashion.

LINKS

LinkedIn Github Medium Website

PUBLICATIONS

Martin, Marvin, et al. ADA-SHARK : A Shark Detection Framework Employing Underwater Cameras and Domain Adversarial Neural Nets. Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies 7.4 (2024): 1-25.

PROJECTS

Domain adversarial neural network [Report] [Code]
Reproducibility study of the DANN and MADA papers using PyTorch-Lightning.

PySpark neural network from scratch [Article] [Code]
Spark implementation of a shallow neural network to classify handwritten digits. Gradients are computed via MapReduce.

Emotion based Art Generator [Article] [Code]
Conditional generative adversarial neural network (CGAN) trained to generate 64×64 painting images for a selected style and emotion.

CERTIFICATIONS

- Generative AI with Large Language Models
- Generative AI Fundamentals
- Workera Software Engineer Deep Learning Assessment
- Deep Learning Specialization
- GANs Specialization

SKILLS

- **Languages** — Python, Java, Bash, R, C, JavaScript.
- **ML Libraries** — PyTorch, Keras, HuggingFace, Transformers, PEFT, LangChain, OpenAI, LLama-Index, Skit-Learn, Wandb, DVC, OpenCV, CatBoost, PySpark.
- **Monitoring** — Sentry, Datadog, Grafana, Zabbix.
- **Deployment** — Docker, Terraform, Kubernetes, AWS, Git-flow, Circle-ci.
- **Cloud** — AWS (SageMaker, S3, Lambda, Batch, ECS, EFS, SAM), GCP, Azure, Ray.
- **Databases** — PostgreSQL, Redis, MongoDB, Firebase, Chroma, Pinecone.
- **Communication** — Leadership, Public-Speaking, Scrum, Jira, Cross-Team communication.

LANGUAGES

English: Fluent **French**: Native **Spanish**: Novice

ACTIVITIES & LEADERSHIP

Comedian, Stuntman: Performed in Timeo in front of 1000 people, 3 times a week as a skateboarder (2016).
Sports: Skateboard (Instructor), Surf, and Slackline.
Achievements: 300km in 3 days on a longboard.