Marvin Martin (He/Him/His)

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,
   Advanced Programming Techniques,
   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 Language, Advanced Database, DevOps, Web Dev,
   Cloud computing, Mathematics for Data Science,
   Calculus, Algebra, Physics, and Signal Processing.

INSEEC London — London, UK
B.Sc. in Computer Science — 01/2019-05/2019

Heriot-Watt University — Edinburgh, UK
B.Sc. in Computer Science — 01/2018-06/2018

EXPERIENCE

Vic.ai (Startup - Series C) — New-York, NY, USA
Machine Learning Engineer — 11/2021-Present
Vic.ai builds AI-based autonomous accounting systems.
- Leveraging Large Language Models (LLM) for accounting.
- Natural Language Processing (NLP) tasks.
- Build Projects like PO Matching, Invoice Coding, OCR.
- ML Infrastructure (Lambda, SageMarker, Kubernetes).
- Data Engineering, Feature Engineering at scale (Ray).
- Support +20,000 models training bi-weekly (+800%).

Centre Securit Requin (CSR) — Runion, FR
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.
- Create pipelines using Nifi to classify videos in real time.
- Investigate model reliability based on weather conditions.

Heuritech — Paris, FR
Training Data Operator Intern — 04/2020-08/2020
Heuritech builds visual recognition and trend forecasting
technologies for fashion industry.
- Ran data engineering tasks to improve datasets.
- Trained Deep ConvNets.
- Active Learning research on acquisition functions.
- Training metrics investigation.

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

In progress: ADA-Shark: A framework for shark detection employing underwater cameras and domain adversarial neural network (Boston University & CSR).

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.

Neural Network from Scratch [Article] [Code]
Mathematics and Numpy code behind 3 Layers Neural Network.

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 Timo 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.