Martin Olivier

CV

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Education

Master

Title *LiDAR; The result of a cross domain collaboartio*
supervisors Supervisors
description Short thesis abstract

Experience

Vocational

2021–2023 **Machine Learning Engineer**, *Meltwater*, Paris

Machine Learning responsible for dataset creation and training, finetuning to production code.
Detailed achievements:

- Developped an API of a Multilingual geo localisation model, dockerised, and running on a Kubernetes Cluster
- Implemented an OCR Module in our in-house Computer Vision Pipeline
  - Exhaustive SoTA, selection of the model, training and evaluation
  - Creation of a Silver dataset using Production Images annotated using our existing OCR modules
  - Implementation of production ready, testable code. Various speed optimisations using Cython
  - End module was nearly twice as fast as previous
- Implementation of a production pipeline for Video Analysis using our existing Computer Vision Pipeline
  - Developpement of a Keyframe extraction micro service using a lightweight CNN as feature extractor
  - Integration of a Video Type into our data pipeline, with aggregation of the results of each frame

2020 **Research Intern**, *Leiden University*, Leiden

Research Intern at the Departement of Digital Archaeology. Researched focussed on automated detection of 3 classes of Archaeological objects in LiDAR surveys.

- Creation of a dataset using LiDAR surveys of the Veluwe Region, Netherlands
- Training and finetuning a YOLOv4 Model, finetuning and modification
- Excellent performance and State of the Art results
- Redaction of a paper (first author), published in the JCAA

2019 **Machine Learning Intern**, *SNCF*, Le Mans

Machine Learning Internship at Centre d'Ingénieurie du Matériel. Creation of PoC of automated detection of audio incidents for embedded use in trains.

- Creation of a synthetic dataset using real world noises
- Development of a RCNN Model, using both RNN and CNN methods
- Training and finetuning on GPU, optimizations
- Dockerization and deployment on a train-borne computer along with a basic GUI

Languages

French	Mother tongue	*Comment*
English	Fluent	*990/990 TOEIC*

Computer skills

Programming Languages	Python, Scala, C	Sysadmin	Linux (debian based), Vim
Frameworks	Pytorch, Huggingface, Sagemaker	Monitoring	Grafana, Prometheus
Data	Kafka	Operational	Kubernetes, Terraform, Docker

Interests

Fractals and Generative Art	I pursue an artistic interest in generating computing-heavy art, using my own algorithms and techniques. I have implemented a very fast Klein's fractal generator on C, along with Buddhabrot using OpenCL.
Music	

References

Category 1

- Person 1
- Person 2
- Person 3

Category 2

Amongst others:

- Person 1, and
- Person 2

(more upon request)

All the rest & some more

That person, and **those** also (all available upon request).

References

[1] John Doe. Title, year.

[2] John Doe. Title, year.

[3] John Doe and Author 1. *Title*. Publisher, edition edition, year.

[4] John Doe and Author 2. *Title*. Publisher, edition edition, year.

[5] John Doe and Author 3. Title, year.

Publications

biblio.bib

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code]https://www.epsln.github.iowww.epsln.github.iowww.epsln.github.io

Company Recruitment team
Company, Inc.
123 somestreet
some city

January 01, 1984

Job application

Dear Sir or Madam,

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis ullamcorper neque sit amet lectus facilisis sed luctus nisl iaculis. Vivamus at neque arcu, sed tempor quam. Curabitur pharetra tincidunt tincidunt. Morbi volutpat feugiat mauris, quis tempor neque vehicula volutpat. Duis tristique justo vel massa fermentum accumsan. Mauris ante elit, feugiat vestibulum tempor eget, eleifend ac ipsum. Donec scelerisque lobortis ipsum eu vestibulum. Pellentesque vel massa at felis accumsan rhoncus.

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Albert Einstein discovered that $e = mc^2$ in 1905.

$$e = \lim_{n \to \infty} \left(1 + \frac{1}{n}\right)^n$$

Yours faithfully,

John Doe

Martin Olivier
Attached: curriculum vitæ