Villerabel Mathias

Machine Learning Scientist

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About me

I am deeply passionate toward using science to solve complex challenges while developing elegant solution and algorithm.
I enjoy to exchange and collaborate with a team. That bring me many insight and new thinking.
I also love the fact that we are just touching the boundaries of the Machine Learning domain and that they are still many things to do !

Skills

Machine Learning

Multi-Agents-System

Robotics

Operational research

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Education

2016–2019	M.Sc. Computer Science	Sorbonne University France
	Machine learning, agents, robotics, operational research, decision	
2013–2016	B.Sc. Computer Science & Mathematics	Sorbonne University France
	Algorithmic, Statistics, Software Engineering, Network, Linux	

Experience

mar-aug 2019 Machine Learning Intern — National Institute of informatics Japan
- *Using main component like mobilenetV2, segmentation & regression map, LSTM to detect human actions.*
- *Integrated deep learning model in drone embedded system for real life application like search and rescue or Surveillance.*

feb-sep 2018 Data Scientist Intern — Webedia Shopping Services France
- *Targeting of customer using clustering and Evolutionary algorithms.*
- *Prediction of customer behavior using majority vote classifiers.*
- *Attribution of products to customer using max bipartite matching.*

Projects

2018 Training an agent to play Strarcaft 2
Reinforcement Learning, Computer Vision.

2018 Induce swarming behaviour in agents
Robotics, Evolutionary algorithm, Neural network.

2017 Modelling the user behaviour in a menu
HCI, Q-Learning, Markovian decision process.

2017 Multi-agents system inspired by the game : Hunt the Wumpus
Communication, information exchange, deadlock, cooperative strategies.

Publications

2019 Drone-based Situational Awareness System
In submission process at IEEE Acess

2019 Real-time Aerial Surveillance
In writing process

Programming languages and Software

Languages

Java, Python (*proficient*). C++, Shell (*fluent*). Matlab, Prolog, Ocaml (*experience*).

Software library

Numpy, Pandas, Sklearn, Tensorflow/Keras, Pytorch GPU.

Software & others

Eclispse, Emacs, Rational Software Architect, GitHub, LateX, TCP/IP, MySQL, CSP.

Miscellaneous

- Seasonal employment: train attendant at IDTGV, luxury seller at Burberry in Printemps Haussmann.
- Administration and management of dedicated servers.
- Member at the Fab Lab of Pierre-and-Marie-Curie University.
- Hobbies: reading, board games, science and technology news