Grégoire Clément

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Current position

Machine Learning Engineer
Visium SA
Zurich, Switzerland

Work Experience

2019 - 2020 Research Intern, NEC Corporation, Tokyo, Japan
Master thesis on Unsupervised Anomaly Detection with images

2019 Swiss Data Science Center, Lausanne, Switzerland
Semester project on Facade Parsing with images

2014 - 2019 Founder - Web Developer, pragmasite.ch
Creating websites for small to medium companies (aside studies)

Education

2019 - 2020 Master Thesis, NEC Corporation, Tokyo, Japan

2017 - 2020 MSc in Data Science, EPFL, Switzerland

2014 - 2017 BASc in Communication Systems, EPFL, Switzerland

2009 - 2013 High School (in both French and German), Payerne, Switzerland

Areas of specialization

Data Science • Optimization • Software Engineering • Statistics • Decentralized Systems
Machine Learning • Deep Learning • Artificial Neural Networks • Computer Vision

Projects and Research

2020 Unsupervised Anomaly Detection (Python)
Automating and enhancing optical inspection within manufactories using Deep Learning

2019 Facade Parsing (Python)
Identifying the building structure from images using Deep Learning

2019 Ingredients-2-Vec (Python)
Finding ingredient substitutes for any recipes using a similar approach as Word2Vec

2019 Pickup and Delivery Problem (Java)
Analyzing approaches (reactive, deliberative, centralized) to solve vehicle routing problems

2018 Robust-Planner.com (Python)
Journey planner with certainty estimation on real Swiss Federal Railways data

2018 GraphLang (Python)
Spectral graph analysis to classify articles with soft clustering

2018 Distributed Stochastic Gradient Descent (Scala)
Distributed version of Hogwild! on a Support Vector Machine problem

Skills

Languages	Python, Scala, Golang, Java, JavaScript, C
Libraries	PyTorch, Spark, Scikit-Learn, Keras, Pandas, Numpy

Awards

2019 Honorary price by Microsoft during StartHack for a Machine Learning based tool making recipes more eco-friendy (hackathon)
2018 Winner of LauzHack using Machine Learning to detect fraudulent bank accounts (hackathon)
2017 Winner of LauzHack using Computer Vision to detect supply chain defects (hackathon)

Conference and Workshops

2019 Applied Machine Learning Days, Lausanne, January 26-29 (attendee) [appliedmldays.org]

Languages

French	Native
English	C1 - Cambridge Advanced English certificate
German	B2
Japanese	A1-2

Hobbies

Rock Climbing • Bouldering • Running • Hockey
Programming • Board Games • Playing Cards • Cinema

Links

Github	github.com/gregunz
Kaggle	kaggle.com/gregunz
DevPost	devpost.com/gregunz
LinkedIn	linkedin.com/in/gregoire-clement

References available on request

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