Nicolas Ward

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I come alive at the intersection of education, product design and machine learning.

Education

MSc, Machine Learning
University College London, UK
2019 - 2020 / Distinction

- Taught by researchers from DeepMind, Facebook AI and UCL Computer Science
- Dissertation on group depolarisation in online recommender systems (UCL CS + UCL Public Policy)

BSc, Applied Mathematics
University of Nice, France
2016 - 2019 / Highest honors

- Highest scoring student in the Faculty of Science
- Innovation award for outstanding contribution to Science and Technology
- Dissertation on statistical coincidence detection of neural spike train patterns

Relevant courses

Game Theory,
Statistical Modelling,
Econometrics,
Supervised Learning,
Deep Learning,
Graphical Models,
Computer Vision,
Reinforcement Learning,
Natural Language Processing,
Affective Computing,
Bioinformatics

Languages

French / native
English / bilingual
Portuguese / read and write
Spanish / read and write

Experience

Data Scientist, Product Team @ Decoded
London, UK / September 2020 - Present / EdTech

Building fun, educational products that demystify data, from machine learning and AI to data visualisation, data-driven business strategy and data ethics.

Research Intern, Machine Learning @ Knap
Monaco / June - August 2018 / RetailTech

Designed prediction models for real-time fraud detection (Bayesian Inference, Markov decision processes, Monte Carlo methods).

Product Lead @ Demola
Nice, France / January - June 2018 / EdTech

Led a team of six in building an interactive learning system for museum visitors. We earned a scholarship to attend an entrepreneurship programme in Lassonde Studios, a hub for young innovators at the University of Utah.

Data Science Intern @ Amadeus IT Group
Sophia Antipolis, France / July - August 2015 / TravelTech

Worked in the Travel Intelligence team. Built a framework to monitor the integrity of the 10,000+ data files received daily by the company. Familiarised with Elasticsearch, Logstash, Kibana and Apache Kafka.

Technical skills

Python // ODE solving / Bayesian Inference on graphs (JTA, HMMs) / Kernel Methods / Image tracking, Condensation, Homographies / Supervised Learning algorithms (k-NN, Naive Bayes, Least Squares, Trees) / Proficient in PyTorch and TensorFlow.

MatLab // Simulation of various stochastic processes (random walk, Poisson process, birth-death process).

R // Statistical computing (Monte Carlo Methods, PCA, maximum likelihood estimations, clustering algorithms).

C++ // Implementation of a realistic 8 ball pool game / Modelling of Brownian motion of gas in a box.

Java // Design of a modern version of Snake.

Julia // Implementation of various neural architectures - convolutional networks, recurrent networks, MLPs.

Keywords // artificial intelligence, machine learning, product, design, EdTech, data, research.