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Alexis J. Drakopoulos

Hi! I'm an ML Engineer passionate about writing clean maintainable code. My interests range from low latency/high performance systems to higher level theory such as system design. I also like various areas of applied mathematics such as statistical learning & probabilistic programming. I enjoy working in fast-paced high impact teams working on interesting technical problems.

Experience

Jan 2022 - Current — **Machine Learning Engineer**, WovenLight.
- Driving the development of an ML toolkit aimed at improving code re-use, integrate best practices & reduce maintenance complexity.
- Development of re-usable & testable modular ML solutions.
- Improving workflows & best practices through refining design patterns.
- Lead PoC on a webscraping & NLP model for textual company similarity.

Stack: Python, Docker, Terraform, GCP, Databricks

Sep 2020 - Jan 2022 — **Research Engineer**, Intellegens.
- Developed interpretable AI guided design of experiments tooling which reduced customer R&D time.
- R&D on statistical learning models for high performance imputation of sparse tabular data.
- Introduced & developed model performance monitoring for core custom ML model.
- Lead on several client projects delivering custom ML functionality.
- Backend work implementing ML endpoints for core ML platform.

Stack: Python, Docker, Kubernetes, Terraform

May - Sep 2020 — **Research Engineer Intern - Computer Vision**, VisioLab.
- Development of a novel deep metric learning model for few-shot classification on edge-devices.
- Drove development of core computer vision model from theory to production.

Code: https://github.com/alexisdrakopoulos/deep-metric-learning

Stack: Python, AWS

May - Sep 2019 — **Deep Learning Research Intern**, University of Strathclyde.
- Research investigating the divergent behaviors of classification & regression CNNs.

Aug - Nov 2018 — **Machine Learning Intern**, Bentley Systems.
- Implementing statistical & machine learning functionality for internal sensor data analysis platform.

May - Aug 2017 — **Research Assistant**, Research Complex at Harwell.
- Additive Manufacturing research on laser melt-pool interaction with Manchester University.

Education

Sep. 2020 — **University of Edinburgh**,
MSc. Computational Applied Mathematics.
Grade: Distinction
Thesis: Deep Metric Learning for Few Shot Classification

Jul. 2019 — **University of Strathclyde**,
BSc. Mathematics & Physics.
Grade: 1st Class Honours
Award: Frank Leslie prize, for achieving the highest class grade.
Thesis: Learning the Ising Model

Languages & Technologies

Python	Primarily for scientific computing & back-end work.
R	Data wrangling & visualizations.
Technologies	Git, Docker & basic Kubernetes, AWS, GCP, Terraform.