ABDALLA Farid

Machine Learning Engineer



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farid-abdalla



Swiss

Skills

Machine Learning

Scikit-Learn, Pandas, Numpy, Ray Tune, SQL, Optuna, NLP (Spacy), computer vision

Deep Learning

Tensorflow, Keras, PyTorch, Huggingface

Reinforcement Learning

Ray RLlib, Stable-baselines, Unity ML-Agents

Software Engineering

Git, Docker, Kubernetes, AWS, Linux, Design Patterns, Project Management, Prototyping, Testing, CI/CD

Languages & Frameworks

Python, C#, C++ (CUDA, Qt), Java (Android), Web (Django, Flask), LaTeX

Languages

French native

English C1

Japanese JLPT N2

German A2

Interests





Fitness Escape Games າ^{ຈາ} Japan

Strengths

Hard-working

Learned Japanese by myself alongside my studies and aced the JLPT N2 exam as well as achieving the best GPA of my promotion

Curiosity

Reimplemented my Master thesis in PyTorch in order to learn the differences with Tensorflow and get hands on experience with this framework

Summary

With 2+ years experience working as a machine learning engineer and more than 8 years of strong academic background in software engineering, I strive to deliver high quality results in machine learning, deep learning and reinforcement learning projects.

Work Experience

HE-Arc (09/2020 – Present)

Research Assistant in Data Science

Neuchâtel, Switzerland

- Designed, built, evaluated and deployed multiple machine learning, deep learning and reinforcement learning models with technologies such as Scikit-learn, PyTorch, TensorFlow, and Ray RLlib
- Worked with various data sources, such as time series, images, videos and natural language data, to create effective data-driven solutions.
- Cleaned and preprocessed data to ensure accuracy, consistency, and developed robust data pipelines to streamline data processing and analysis
- Collaborated with cross-functional teams to develop AI solutions and integrate machine learning models into real world applications.

Education

Osaka Metropolitan University (04

(04/2022 - 09/2022)

Osaka, Japan

Master Thesis

Grade: 6.0 / 6.0

HES-SO Master (09/2019 – 09/2020)

Master of Science – Data Science Lausanne, Switzerland

GPA: 5.5 / 6.0

♦ HE-Arc (09/2016 – 09/2019)

Bachelor of Science – Software Engineering Neuchâtel, Switzerland

GPA: 5.6 / 6.0 **Award:** Best GPA

Projects

GANime Tensorflow / PyTorch

Combined an image generation model (VQ-GAN) with a GPT2 transformer to generate video of anime content conditioned on two frames

SOON-RL Ray RLlib / Unity ML-Agents

Applied reinforcement learning techniques in a multi-agent scenario to optimize workshop production and respond to machine failures

PPI-Doppelganger

Tensorflow

Developed an explainable deep learning model to assist traders in making decisions on different currency pairs

MoDoS Tensorflow

Fine-tuned and deployed an image classifier model trained on a highly imbalanced dataset

K-defauts Scikit-learn

Developed a multi-label classification model for natural language data to categorize new flaws based on textual descriptions