Yassine Ben Jemaa

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Machine Learning Engineer open to new Opportunities – September 2025

Experiences

Koordinat, *Machine Learning Engineer - Copenhagen*   *May 2024 - Oct 2024*
- implemented AI solutions and state-of-the-art methods for computer vision tasks and NLP tasks.
- Engineered features and built scalable pipelines for data preprocessing, model training, and evaluation to streamline ML workflows.
- Designed and fine-tuned large language models for NLP and computer vision insights.
- Engaged in cross-functional collaboration to present AI capabilities and integrate feedback from technical and non-technical partners.

Trimble, *Software Engineering Intern - Paris*   *Jun 2022 - Jul 2022*
- Contributed to the development cycle of 3D scanning and point cloud processing software.
- Conducted field operations for 3D scene digitization using a laser scanner, ensuring precise data acquisition for software testing.
- Created a Python and QML-based application to streamline data extraction processes, enhancing team efficiency.
- Improved Quality Assurance workflows by implementing automated validation techniques for data integrity.

Michelin, *Data Scientist Project - Paris*   *Jan 2024 - Mar 2024*
- Collaborated with Michelin on a project to implement a machine learning model for time series analysis.
- Developed forecasting models for time series data, benchmarked against physical models, to improve the reliability of financial and operational forecasts.
- Implemented advanced data preprocessing techniques, including time series filtration, to enhance the robustness and accuracy of the predictive models.

Projects

Portfolio Project   *Jan 2025 - Apr 2025*
- Conducted research on state-of-the-art Deep Learning methods, focusing on Computer Vision and Natural Language Processing applications.
- Implemented and evaluated transformer-based architectures (DINOv2, SAM, LLMs) for object detection, segmentation, and information retrieval.
- Developed pipelines for large-scale data processing, feature extraction, and experimentation with self-supervised learning.
- View research portfolio online

Computer Vision Research Project   *Nov 2023 - Jan 2024*
- Implemented an advanced Diffusion model in Python using Guided Diffusion techniques for Inpainting problems [Link to Paper]
- Mastered cutting-edge concepts and methodologies in generative models
- Reviewed and synthesized relevant scientific literature, demonstrating a strong skillset in reading and comprehending complex research papers about state-of-the-art AI tools.

Education

MSc in Data Science, *Ecole Polytechnique – France*   *Sep 2023 - Dec 2024*
- **Coursework** : Deep Learning, Natural Language Processing (LLM and Transformers), Monte Carlo Methods to Data-based generative model, Hidden Markov models, Computer Vision, Causal Inference, Supervised and Unsupervised Learning.

Applied Mathematics and Statistics Engineering Degree, *Telecom SudParis – France*   *Sep 2021 - Dec 2024*
- **Coursework** : Reinforcement Learning, Data Mining, Bayesian Estimation in Markovian Models and Web Architectures
- Modules include: Sustainable Development, Business Law, Economic Performance, and Quality Management.

A 2-year intensive Mathematics and Physics course, achieved with the highest honors, *Paris*   *Sep 2019 - Jun 2021*
- Preparation for the selective entrance examination to French engineering schools (MPSI-MP*).

Skills

Programming	Python (Scikit-learn, PyTorch, Tensorflow), Java, SQL, R, Bash, Git, Docker, C++, AWS.
Tools	Jupyter Notebook, HuggingFace, LangChain, CUDA, CI/CD Pipelines, Visualization (Matplotlib, Seaborn).
Soft Skills	Communication, Insightful, Teamwork, Adaptability.
Languages	French (Native), English (Fluent), Spanish (Intermediate), Arabic (Conversational).

Certificates

Deep Learning specialization - Coursera   *2023*
Neural Networks and Deep Learning, Hyperparameter Tuning, Regularization and Optimization.

Online Course, Advanced Planning and Management of Creativity and Brainstorming - MOOC   *2021*
- Developed skills in using a variety of tools and techniques for facilitating creativity sessions
- Acquired knowledge on how to manage and lead creative teams and innovative groups (Agile methodology).