

David Hajdu

ML ENGINEER · DATA SCIENTIST

Valencia, Spain

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Summary

Passionate about machine learning with a strong foundation in software development. Expertise spans data science, ML engineering applied across dynamic industries including logistics, healthcare, finance, and media. Thrives in diverse, multicultural environments, adept at steering projects from ideation through to deployment, always prioritizing customer-centric solutions.

Skills

Programming	Python, JAVA
Data Science	NLP, Recommendation Systems, Search and Ranking, CV, transformers, PyTorch, pandas, scikit-learn, scipy
Cloud	AWS, Azure
DEVOps	Unix, FastAPI, GitHub Actions, CI/CD, Git, Docker
Languages	Hungarian, English

Work Experience

Holocene

Remote

NATURAL LANGUAGE PROCESSING ENGINEER & MACHINE LEARNING ENGINEER

Sep. 2022 - May. 2024

- Developed end-to-end ML pipelines for Document AI, specializing in NLP tasks and multimodal models for PDF files.
- Developed multiple proof-of-concept solutions for document classification, layout classification, entity extraction. This includes an encoder-based transformer model that consistently achieves over 97% accuracy in the production pipeline.
- Integrated and prompt-engineered a GenAI model with Langchain and OpenAI API for special cases of entity extraction.
- Deployed several model on AWS Sagemaker Inference endpoints.
- Deployed a centralized logging environment(CloudWatch, S3) which gather log data from docker containers and AWS resources.

Diaverum

Remote

DATA SCIENTIST

Aug. 2021 - Aug. 2022

- Collaborated with clinicians and healthcare administrators to convert predictive model outputs into actionable insights and effective decision support tools for clinical practice.
- Developed a POC for early thrombosis detection, using metadata from dialysis machines, patient healthcare reports, laboratory results and demographics data.
- Provided continuous support and maintenance to optimize the integration and performance of machine learning tools within clinical environments.

Centrál Médiacsoport

Remote

DATA SCIENTIST

Apr. 2020 - July. 2021

- Developed various recommender systems and worked on search optimization.
- Built news recommendation systems using Django, PostgreSQL, and Spark, incorporating topic modeling, collaborative filtering, and ranking methods. These systems significantly enhanced user engagement and click-through rates.
- Designed and deployed a Multi-Armed Bandit algorithm using UCB for a recipe recommendation engine, optimizing user engagement and dynamically adapting to user preferences.
- Created numerous automated reports in Grafana for various departments to analyze and improve user engagement.

Deloitte

Budapest, Hungary

DATA ANALYST

Apr. 2019 - Mar. 2020

- Created both automated and manual reports to support audit processes.
- Reproduced automated calculations in line with specific bank' methodologies, including interest rates and default interest.
- Collaborated with the Risk Advisory department on various credit risk calculations (e.g., EAD, PD, LGD).
- Partnered closely with bank teams to gain a comprehensive understanding of their processes and implement their methodologies effectively.

Skyguard

Budapest, Hungary

SOFTWARE DEVELOPER

Dec. 2016 - Mar. 2019

- Developed mobile applications for iOS and Android, translating stakeholder ideas into functional solutions.
- Created a Bluetooth-enabled gate opener for secure access control.
- Designed a fleet tracking application to monitor and manage client vehicles.
- Implemented a digital, cloud-based worksheet for company mechanics.
- Developed a cloud-based contract management system for the sales department.
- Built an OCR solution using TensorFlow for plate number recognition.

Education

VAP, INTERNATIONAL TRAINING CENTER FOR BANKERS (ITCB)

Budapest, Hungary

PORTFOLIO MANAGEMENT

2012

- This program is part of the CEFA (Certified European Financial Analyst) (EFFAS) program. It provided foundational knowledge in portfolio management, financial law, equity and derivative valuation and analysis, and macroeconomics.