

# Eole Cervenka

## Machine Learning Engineer

### Experience

- 06.2022– **Machine Learning Engineer, Lambda Labs.**
- 10.2024
- Created a LLM production evaluation pipeline using LangChain for AI generated news site ML Times.
  - Developed gen AI benchmarks, including a GPU inference benchmark for stable-diffusion cited by Google Research in the Muse paper.
  - Published stable diffusion fine-tuning demos on Hugging Face.
  - Conducted technical interviews for ML hiring.
- 06.2022– **Machine Learning Consultant, Deep Voodoo (through Lambda Labs).**
- 12.2023
- Led training speed optimization of a deepfake pipeline used in major entertainment projects.
  - Productionized a deepfake research pipeline by enforcing strict versioning and containerizing the deployments.
  - Improved training speed via various optimizations (learning rate defaults and scheduler, adding support for FP16)
  - Led R&D in facial detection, image restoration, and controllable expression generation.
- 06.2019– **AI Software Engineer, Boston Consulting Group.**
- 07.2021
- Role focused on productionizing and deploying data applications on the client infra
  - Built data engineering pipelines using pandas and pySpark and visualization web app.
  - As an internal project, I developed a CI/CD pipeline using JFrog pipeline to enable consultants to deploy their own cloud-based coding environment by inputting a Dockerfile on the frontend.
- 10.2018– **Data Scientist, Prazely.**
- 04.2019
- Built a content-based recommender system for an e-commerce website using a graph backend.
- 05.2018– **Research Scientist, Orange Telecom.**
- 09.2018
- Benchmarked a parameter-free time series classifier against existing models.
- 07.2016– **Python Developer, Startup.**
- 09.2017
- Built a Twitter data analytics web app using Flask and Neo4j
  - Implemented unsupervised NLP techniques and graph queries to identify topics and communities of users respectively.

### Education

- 2017–2018 **Master's Degree, Mathematics and Computer Science, Université Paris Dauphine - PSL.**
- 2015–2016 **Master of Business Administration, Bentley University.**
- 2011–2014 **Master's Degree, Business Administration and Management, NEOMA Business School.**

## Articles and Projects

- All You Need Is One GPU: Inference Benchmark for Stable Diffusion (2022)
- Text-to-naruto: A stable diffusion demo (2022)
- GiftHub: A collective decision-making tool for distributing money (2021)