Jan Meppe

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Profile

Jan Meppe (29) is a machine learning engineer experienced in bringing ML algorithms to production at scale. Domain expertise in the edtech space. Background in data science consulting. Educated in quantitative finance & statistics. Enjoys writing and sharing learnings on his blog www.janmeppe.com.

Work History

Machine Learning Engineer @ Snappet (AI startup in education) (~2.5 years)
Worked on machine learning infrastructure (mlops), modelling, and model research
Aug. 2021 - Present, Amsterdam

- Designed, built, and deployed a new machine learning model improving student learning performance at scale, resulting in 22% (!) improvement in key company metric (learning results)
- Designed, built, and deployed machine learning orchestration pipeline for nightly batch jobs, part of an AI powered product initiative, enabling new features and resulting in a new machine learning design pattern for the organisation
- Designed, built, and productised end-to-end machine learning retraining pipeline, unifying core algorithms in a single place, resulting in smooth delivery from models from research to production
- Redesigned core algorithm in the platform and scaled training to more than 5b rows, resulting in productising new algorithm to 2 out of 3 key markets
- Helping out building out the team, sat in on 10+ interview loops
- Models: Transformers, LSTMs, RNNs, hierarchical embedding models, large scale Rasch (IRT) models
- Technologies: Python, SQL, AWS, Docker, Tensorflow, CloudFormation (infrastructure as code), SageMaker DynamoDB, S3, CICD, Azure DevOps, PyTorch

Data Scientist @ Cognizant (Fortune 200 Tech Consultancy) (2.5 years)
Worked as a consultant on 10 projects for 7 clients in 3 countries
Feb 2019 - Aug 2021, Amsterdam

- Led machine learning developments of AI-powered chatbot (using Bi-Directional Bahdanau Attention LSTM) for telco client serving >2m users
- Reduced build times of CICD pipelines by 60% at telco client, resulting in significant cost savings
- Other: sentiment classification (aviation client), computer vision (retail client), customer segmentation (retail client), natural language processing (pharma client), sap to python migration (energy client), and more

Education

MPhil Advanced Econometrics (8/10), Tinbergen Research Institute, Amsterdam (2016-2018)

- Full scholarship based on merit
- Thesis: High-Frequency Contagion in Hawkes Jump-Diffusion Models Using Particle Filters
- Completed extracurricular PhD level math course: asymptotic statistics

MSc Financial Econometrics (8.3/10), University of Amsterdam, Amsterdam (2015-2016)

- Thesis: High-Frequency Stock Prediction Using Machine Learning Algorithms (8.5)

BSc Econometrics (7.95/10), University of Amsterdam, Amsterdam (2012-2015)

- Thesis: Augmenting econometric models with NLP features (Latent Dirichlet Allocation) (8.5)
- Top 10% GPA and a minor in actuarial sciences

Gymnasium/VWO (7.9/10), OSG West-Friesland, Hoorn (2006-2012

- Scored a 9.5/10 on the national mathematics final

Selected side projects

- **Writing** I write on my blog, www.janmeppe.com, with a steady viewership of more than 1k monthly visits
- **Meditation app** (iOS) I built an iOS app in Javascript/React/Redux and shipped it to the Apple App Store
- **HackerNews** I wrote a blog post that ended up on HackerNews and was read more than 30.000 times
- **Open source** I support open-source my Github account enjoys more than 25 stars across several projects

Skills

- **Programming**: Python, Tensorflow, Keras, Pytorch, AWS, Solution Architect, Domain-Driven-Design, scikit-learn, Django, Flask, Javascript, React Native, Docker, CICD, Jenkins, Azure Devops, CloudFormation, Infrastructure-as-code, deployment to production
- **Solution Architect**: Certified AWS Solution Architect Associate (AWS SAA-C03)
- **Competitive:** Ex-top 500 player of a video game with more than 42 million players worldwide
- **Languages:** Native Dutch, proficient English (CAE grade A, CEFR mastery level)
- **Analytical:** Personal best for solving a Rubik's cube: 14.7 seconds