

Jaime Ferrando Huertas

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Senior Machine Learning Engineer with a focus on information systems, I have a strong background in developing and implementing large-scale search and recommendation systems. My expertise lies in statistical analysis, machine learning algorithms, and artificial intelligence. I have a proven track record of successfully deploying and scaling machine learning solutions in real-world applications and serving millions of users.

Work Experience

EcomID

Co-Founder - Head of AI

- Lead AI Team

Stockholm based

November 2023 - Now

Shaped.ai

Senior Machine Learning Engineer

- Develop and implement machine learning models and infrastructure to enable customers to build highly effective, real-time recommendation systems.
- Build and deploy semantic search systems from recommendation models representations.
- Design and implement real-time feature-store and data ingestion pipelines to minimize train-inference disparities and merge pipelines for both batch and streaming.

Remote, Stockholm based

April 2022 - November 2023

H&M

Senior Machine Learning Engineer

- Organized H&M's inaugural Kaggle competition, involving over 2900 international teams and a prize fund of \$50,000.
- Engineered neural-based recommendation systems, significantly boosting customer engagement, revenue, and online interaction.
- Design and implementation of infrastructure on GCP for real-time recommendation model serving. Reduced ingestion time of user events to be ready for model inference from 16 hours to 3 seconds.
- Steered A/B tests, experimentation and established feedback mechanisms for internal dashboards.

Stockholm, Sweden

Feb 2020 - April 2022

Sandvik

Data Scientist

- Abnormal behavior modelling for multivariate distributions of high performing industrial processes.
- Deployment and maintenance of inference servers within GCP.

Stockholm, Sweden

Oct 2018 - Feb 2020

Polystar group

Data Scientist

- Abnormal behaviors within telecommunications networks.

Stockholm, Sweden

Oct 2017 - July 2018

Ahora freeware

Software Engineer Intern

- I designed a cloud-based library that seamlessly integrates with existing CRM for effortless file storage across cloud storage providers: Dropbox, Office365, and Google Drive.

Valencia, Spain

Jun 2016 - Oct 2017

Education

Master's degree in Artificial Intelligence, Pattern Recognition and Digital Imaging

UPV, Politecnia University of Valencia

- Cum laude master thesis.
- **Courses:** Data Science, Programming for Data Science, Knowledge Representation and Reasoning, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning

Valencia, Spain

Bachelor in Computer Science

UPV, Politecnia University of Valencia

- Class representative.
- Part of the High performance class where only 30 students out of 450 would follow bachelors with english coursework.
- Exchange program with KTH Royal Institute of Technology.

Valencia, Spain

Publications

Skills

Programming	Python, Java, C, C++, Javascript
ML Tools	Pandas, PyTorch, NumPy, Scikit-learn, LightGBM, XGBoost, FAISS, Annoy, TensorFlow, Keras Matplotlib, Seaborn, Statsmodels, NLTK, SpaCy, Gensim, ElasticSearch
Cloud tools	AWS, Sagemaker, S3, Lambda, Jenkins, CircleCI, Azure, Jenkins, CircleCI Google Cloud (GCP), Firebase, Bigquery, VertexAI, Dataflow, Pub/Sub
Databases/Data Platforms	PostgreSQL, MySQL, MongoDB, Cassandra, Hadoop, Spark, Hive, Databricks, ElasticSearch
Miscellaneous	Linux, Shell (Bash/Zsh), Docker, \LaTeX , Markdown), Microsoft Office, Git, Vim

Achievements

2022	Organizer , H&M Personalized Fashion Recommendations	Kaggle
2018	2nd , UniversityHack 2018 - National Cross university competition for data science modeling	Spain

Open Source work

Sklearn

Several improvements to the Partial Least Squares (PLS) implementation and helper methods.

Pytorch Audio

Added new baseline datasets (Tedlium 1, Tedlium 2, Tedlium 3) and code to facilitate reproducible experiments over one of the most famous ASR benchmarks.

LAS-Pytorch

Open source Implementation of Listen, Attend and spell model for E2E ASR.

Behavior-Sequence-Transformer-Pytorch

Open source Implementation of Behavior-Sequence-Transformer, a published paper by Alibaba research that joins session and context based recommendation systems.

H&M Recommendation dataset

Released an open source recommendation dataset along with the hosted Kaggle competition.

Neural recommender systems at H&M

Master Thesis (Cum-laude graded) for Neural based recommender at H&M. Proposed models replaced existing ones in production.

Time series with Python

A use-case focused tutorial for time series forecasting with Python.

Jupyter-lab-docker-rpi

A Docker image to run JupyterLab on your Raspberry Pi.

Netflix-RNN-Recommender

Implicit recommender for Netflix dataset.

GMM-Classifer

Python implementation for a Gaussian mixture model classifier.

PLS Regression Tensorflow

PLS regression in TensorFlow 2.0.

OpenAI Game Challenges

My first ever project with AI where I solved the OpenAI game challenges with reinforcement learning.

References available upon request.