

João Gomes Sousa

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SUMMARY

I am a Data Scientist with 7 years experience in a fast growing e-commerce company, where I worked on multiple customer facing, high impact projects, such as the in-house recommendations engine and the search and ranking systems.

I am a creative, pragmatic, data-driven professional with experience delivering Data & Machine Learning products at scale and managing and mentoring Data Science teams. I am passionate about working on product and taking ideas from the whiteboard to the customer.

EXPERIENCE

Farfetch, Principal Data Scientist – Search & Ranks

JAN 2019 - PRESENT

- Technical lead for 3 Data Science teams working on the internal search and ranking systems (semantic search, named entity recognition, search suggestions, learning to rank)
- Designed, planned and delivered multiple roadmap initiatives working closely with product and engineering teams (user segmentation, personalized search & ranking, search evaluation framework)
- Led initiatives to simplify the search & ranking system's architecture, decrease technical debt and improve development practices in Data Science
- Helped establish a culture of Test & Learn with iterative releases and continuous AB Testing (est. GMV uplift of tens of millions USD)

Farfetch, Lead Data Scientist – Recommendations

JAN 2017 - DEC 2018

- Led a team of 4 Data Scientists working on the in-house recommendations system
- Worked closely with engineering and product within a Scrum team
- Oversaw and managed delivery of ML algorithms and pipelines (Spark based clickstream ETL, matrix factorization models, GDPR-compliant data processing)
- Managed research projects in an Agile environment (deep siamese neural networks, context aware recommendations, session based recommendations)
- Handled recruitment and on-boarding of new Data Scientists
- Carried out several public presentations in conferences and meetups

Farfetch, Data Scientist – Recommendations

FEB 2015 - DEC 2016

- Designed and implemented personalized recommendation algorithms
- Built data pipelines for large scale data processing (Spark, Luigi, Airflow)
- Worked with Deep Learning for computer vision tasks (Keras, Tensorflow)
- Built high performance API to serve recommendations (Flask)
- Designed solutions for live deployment of Data Science products (Docker, Jenkins)
- Developed web tools to aid visualization and demonstration of results (Python, Node, AngularJS)

TECH SKILLS

Python

Numpy, Scipy, Pandas, Scikit-learn, Keras, tensorflow, Flask, FastAPI

Big Data

Spark, Databricks, Airflow, Luigi, Kafka

Databases

SQL Server, Cassandra, MongoDB, Google BigQuery

Other

Javascript, Julia, Scala, Docker, Linux, Bash

INTERESTS

Recommender Systems

Search and NLP

Deep Learning

Computer Vision

AB Testing

Large scale data processing

Web App development

EDUCATION

U. Aveiro, Ph.D. in Statistical and Computational Physics

2010 - 2014

- Worked on computer simulation of molecular systems and thermodynamics of phase transitions
- Experience with low level implementation of high performance Monte Carlo algorithms for molecular simulation (Fortran, C++) and in high level languages for data analysis (Python, MATLAB)
- Handled the setup, control and analysis of tens of thousands of individual simulations in a distributed computing environment (linux cluster)