

Stojan Jovanović, Ph.D.

Senior Data Scientist,
Analytics Engineer &
AI Systems Architect



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United Kingdom



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About me

A professional with 5+ years of experience in computational & data science, I am fluent in every part of the modern analytics workflow, from developing first data pipelines, model prototyping, through to Data/MLOps. Furthermore, I have considerable expertise in the field of data/ML systems design & engineering, having designed both HPC & distributed systems, built to support AI solutions. So far, I have worked professionally in the domains of finance, advertising and healthcare.

Skills

git

Tensorflow, Keras

Pandas, Numpy, Scikit-Learn

Dask, Ray, Modin, Spark

DB Systems, PostgreSQL

Jupyter, Streamlit, Shiny

dbt, DVC, Prefect

Docker, Enroot

*nix admin, systemd, bash, Ansible

HPC systems, SLURM, Torque

Rlang, tidyverse, ggplot2

Scala, Clojure

Golang, JavaScript, Elm

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Experience

- 04/20 - now Lead Data Scientist Sensyne Health Plc, Oxford, UK
Slurm / Dask / PostgreSQL / DVC / dbt / Ray / PyArrow / Enroot / R
Spearheaded deployment of HPC facilities (9 node hybrid CPU/GPU system, WekaFS, InfiniBand) in the company's AI lab.
Led a team of 4 data scientists to find clinical predictors of Covid-19 disease severity from real-world EPR data, resulting in 2 publications.
Introduced CI for data/ML pipelines, using on-prem GitLab CI as an orchestrator.
- 01/20 - 04/20 Machine Learning Architect Sensyne Health Plc, Oxford, UK
Modin / Pandas / PostgreSQL / TensorFlow / Dask / R / Parquet
Led development of ELT pipeline system, producing standardised & analytics-ready datasets from two NHS trusts for use by DL research teams.
Designed/deployed central DB server, storing sensitive patient data from NHS trusts, as well as AI lab's remote work infrastructure at Covid19 pandemic onset.
- 04/19 - 12/19 Senior Machine Learning Researcher Sensyne Health Plc, Oxford, UK
Ansible / Keras / Pandas / Dask / Nvidia-Docker / Prefect / GCP
Led design and implementation of complex ML pipeline for large commercial project, enabling collaboration by 3 teams of 30 data scientists.
Built the company's AI lab infrastructure from scratch - from one shared server to a secure network of 50+ workstations with air-gapped central GitLab services, private Docker registry, private *nix package repositories & secure remote storage.
- 05/18 - 03/19 Machine Learning Engineer Adverai Ltd, Stockholm, Sweden
TensorFlow (Serving) / gRPC / Docker / GitLab / PostgreSQL / GraphQL
Designed and engineered Adverai's entire ML microservice stack (model serving infrastructure, HTTP/gRPC APIs, CI/CD system). Using the new ML stack, introduced time-series prediction and anomaly detection functionality to the company's core software product.
- 04/17 - 05/18 Data Scientist Qliro AB, Stockholm, Sweden
R / ELK stack / Scikit-Learn / Scala / Spark / H2O.ai / SQL Server
Designed and built a system for scheduled re-training and scoring of credit risk models on top of Hadoop, Spark and H2O.ai, automating manual credit reserve reporting processes.
Helped migrate ETL systems from RDBMS to the Hadoop ecosystem, as data volume rose while we expanded into new markets.
- 04/16 - 04/17 Data Scientist Kavli Institute, Trondheim, Norway
Torque / TensorFlow / Pandas / Scikit-Learn / Scikit-Image / Jupyter
Developed a novel, latent-variable RNN network architecture to predict time series of electrical activity of rat neurons. Publication still being prepared.

Personal Projects

- SumReader A small data summary library, written as a Reader monad —> [link](#)
CallingCard A minimalist digital business card, written in TypeScript —> [link](#)
MLHub An AI-Lab-as-a-service prototype, inspired by FloydHub —> [link](#)

Education

- 2012 - 2016 Ph.D. in Computer Science & Comp. Neuroscience Magna Cum Laude
KTH Royal Institute of Technology, Stockholm, Sweden
Bernstein Centre Freiburg, Freiburg im Breisgau, Germany
Erasmus Mundus Joint PhD Programme
- 2010 - 2011 M.Sc. in Applied Mathematics & Operations Research 9.5/10.0 GPA
University of Belgrade, Serbia.
Principal subjects: stochastic calculus, graph theory, queueing theory
- 2006 - 2010 B.Sc. in Statistics, Actuarial and Financial Mathematics 9.2/10.0 GPA
University of Belgrade, Serbia
Principal subjects: statistics, financial and actuarial mathematics