Stojan Jovanović, Ph.D.

Senior Data Scientist &
AI Systems Architect

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About me

As a professional with years of experience in computational & data science, I am comfortable with every part of the modern analytics workflow, from deploying the first data pipelines and initial model prototyping to ML/Data/DeepOps.
In addition, I have considerable expertise in the field of data & ML systems architecture, having designed both computational infrastructure, as well as high-performance 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

Docker, Enroot

*nix admin, systemd, bash

HPC systems, SLURM, Torque

Jupyter, Nteract

Streamlit, Shiny, Plotly

DB Systems, PostgreSQL

Ansible

Scala

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

Experience

04/20 - now Lead Data Scientist — Sensyne Health Plc, Oxford, UK
Led a team of 4 people in a project to find clinical predictors of Covid-19 disease severity from real-world EPR data, resulting in 2 publications. Orchestrated deployment of HPC facilities in the company's AI lab.

01/20 - 04/20 Machine Learning Architect — Sensyne Health Plc, Oxford, UK
Served as DeepOps/ ML engineering lead for company's AI lab, reporting to one of the company's managing directors. Led deployment of central database server, storing sensitive patient data from NHS trust partners. Designed and helped deploy the AI lab's remote working infrastructure at the onset of Covid-19 pandemic.

04/19 - 12/19 Senior Machine Learning Researcher — Sensyne Health Plc, Oxford, UK
Patented ML solutions for risk prediction and unsupervised detection of sub-populations in heart disease patients. Co-led the design and implementation of complex ML pipeline for a large commercial project, facilitating collaboration by 3 teams of 30 data scientists.

05/18 - 03/19 Machine Learning Engineer — Adverai Ltd, Stockholm, Sweden
Designed and engineered Adverai's entire ML microservice 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
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 move ETL processes from SQL to Hadoop, as the company expanded into new markets.

04/16 - 04/17 Data Scientist — Kavli Institute, Trondheim, Norway
Developed a novel, latent-variable RNN to predict time series of electrical activity of rat neurons. Currently preparing a publication with the person that continued my research.

Personal Projects

MLHub A small ML playground web service, based on FloydHub. Built using Flask, Jinja2, Keras and Tensorflow. Hosted on Heroku.
More info found here —> link

CallingCard A minimalist digital business card, written in Javascript.
The business card can be found here —> link

Education

2012 - 2016 Ph.D. in Comp. Neuroscience & Computer Science — Magna Cum Laude
Bernstein Centre Freiburg, Freiburg im Breisgau, Germany
KTH Royal Institute of Technology, Stockholm, Sweden
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

2006 - 2010 B.Sc. in Statistics, Actuarial and Financial Mathematics — 9.2/10.0 GPA
University of Belgrade, Serbia
Principal subjects: probability theory, mathematical statistics, financial and actuarial mathematics

Invited talks and study visits

02/17 Visiting Researcher at the Institute for Advanced Study, Princeton, New Jersey

08/16 Invited to speak at the Institute for Materials Science, Los Alamos National Lab, Los Alamos, New Mexico