Résumé - Arash Shahsavari

Phone +46 70 712 63 22
Email arash.shahsavari93@gmail.com
Web , , webpage

Experience

2022-
Stockholm, SE

Senior Data Scientist - Avida Finance

As a technical expert on data-driven models at Avida, my responsibilities include:

- Building machine learning models end to end, from sourcing and wrangling data, to feature and model selection, to implementing and deploying to production systems (both real-time and batch).
- Developing production systems that Avida's machine learning models live in, and new tools to meet model validation and monitoring needs.
- Automating manual processes, often by collaborating across functions.
- Integrating with the wider company to create impact by mentoring junior colleagues, building lasting collaborations across teams, driving changes that require multi-department alignment, and presenting change proposals to CEO+CFO+other CXOs for decisioning.

2022-2023 **Visiting Researcher - University of Cambridge**
2019-2022 **Bioinformatician - University of Cambridge**
Cambridge, UK

- Machine learning and statistics on terabyte-scale datasets for analysis and modeling, using a broad mix of techniques and tools.
- Developed R package ClustAssess from scratch, which I continue to maintain.
- Involved in entire recruitment pipeline, from designing technical skills test, to selecting candidates for interviews, interviewing and final recruitment decisions.

Education

2016 - 2019
Gothenburg, SE

M.S. in Complex Adaptive Systems - Chalmers University of Technology

Selected Coursework: Neural Networks, Stochastic Optimization, Information Theory, Dynamical Systems.

Fall 2017
Seoul, SK

Exchange Studies - Dongguk University

Selected Coursework: Multiple View Geometry, Deep Learning.

2013 - 2016
Lund, SE

Electrical Engineering - Lund University

Selected Coursework: Multivariable Calculus, Control Theory, Mathematical Statistics, Numerical Analysis.

Teaching and Mentorship

Teaching

- Intro to Machine Learning - Lecturing for PhD students and postdocs in Cambridge (2021), and separately for industry professionals (2022).
- Teaching coding to classes of children and developing teaching materials and curriculum at Kodcentrum (2018-2019).

Mentorship

- Guided Junior Data Scientist at Avida Finance to advance to Data Scientist position within one year of employment.
- Coached Computer Science M.Sc. student through 6-month Cambridge internship with weekly 1-on-1s. Advised and assisted the intern to contribute to open-source software and co-author scientific publication (2021). The person went on to join the group as a full-time employee.

Skills and Development

- **Programming Environments:** Python (Optimization example),
  R (Clustering evaluation package, Random Forest feature selection example),
  Julia (Outlier detection example, Optimization example), SQL, C++, Bash, MATLAB, LaTeX, Arduino.
- **Computing Tools:** AWS ML stack, SLURM, Spark, git, Jupyter Notebook (Example), R Markdown (Example).
- **Software Packages:** ClustAssess - developed from scratch, currently package maintainer Github, Example, Documentation.
- **Scientific Publications:** 4 papers on biomedical data science.
- **Professional Certifications:** AWS Machine Learning Specialty.
- **Self-Directed Learning:** Intermediate Linear Algebra, Computational Linear Algebra, Real Analysis, Combinatorics & Graph Theory, Reinforcement Learning.
- **Webpage:** sharash.github.io

For an updated version of this résumé with hyperlinks, see sharash.github.io/resume.pdf