

Résumé - Arash Shahsavari

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Experience

2022- Senior Data Scientist - Avida Finance

Stockholm, SE My achievements span across multiple areas:

- *Model development* - feature and model selection, validation, implementing in production systems (real-time and batch).
- *Data engineering* - constructing production data pipelines, wrangling cross-system data sets for model development, data integration and validation.
- *Software engineering* - building production systems that machine learning models live in, architecting model monitoring solutions.
- *Driving cross-functional initiatives* - leading initiatives that require multi-functional efforts, ultimately presenting changes to CEO + CFO + 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 to make large-scale clustering interpretable.
 - Involved in entire recruitment pipeline, from designing technical skills test, to selecting candidates for interviews, interviewing and final recruitment decisions.

Education

2016 - 2019 M.S. in Complex Adaptive Systems - Chalmers University of Technology

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

Fall 2017 Exchange Studies - Dongguk University

Seoul, SK Selected Coursework: Multiple View Geometry, Deep Learning.

2013 - 2016 Electrical Engineering - Lund University

Lund, SE 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](#)), SQL, C++, Bash, \LaTeX , Arduino.
- **Computing Tools:** AWS ML stack, SLURM, Spark, git, Jupyter Notebook ([Example](#)), R Markdown ([Example](#)).
- **Software Packages:** [ClustAssess](#) - developed from scratch [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](#).