Mgr. Josef Moudřík

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Personal

I am a Machine Learning engineer and researcher with a lot of experience in turning Artificial Intelligence models into applications that bring value. I have experience with consulting, designing and implementing ML prototypes and novel solutions for various clients.

For example, I have been a Tech Lead for Machine Learning PoC team at Merlon Intelligence, prototyping AI-powered AML and Due Dilligence solutions for large international clients (e.g. Credit Suisse, JPMorgan Chase).

I am a father, singer & ukulele fan and I play improvisational theatre. Occasionally, I like to go for a run and enjoy a nice game of Go (1-dan).

Skills

Strong leadership skills and team-work. Great communication skills and empathy.

Great analytical and **problem solving skills**.

Very good knowledge of **Python**, **ML frameworks**, Scala, C++, Java, dart.

Artificial Intelligence — strong general overview, active research in **machine learning**.

Technologies — databases, statistical modeling, functional programming, git, unix, shell, etc.

Languages — **native Czech**, **fluent English** (CAE, grade A), advanced **Russian**, basic German.

Work Experience

Senior Machine Learning Engineer, Tech Lead for PoC's, CEAI Inc., Merlon Intelligence, 2017–2019.

– leading design and development of Proof of Concept solutions in a highly regulated banking sector, major international clients (e.g. Credit Suisse, JPMorgan Chase, Morgan Stanley),

– coordinating the projects with a globally distributed team,

– engineering cutting edge AI Natural Language Processing solutions.

Freelance Consultant & Software Engineer, 2011–present.

– co-founded an AI-based **mobile e-learning solution** for musicians, 2019-present.

– prototyped **innovative AI solution** for a prestigious Swiss and German clients, 2016.

– architecture and development of http://movium.io backend, 2015.

– founded and designed a sales management IS, managing it for a client[1], 2011–present.

[1] http://www.vera-gurmet.cz

Main Organizer of Second International Go Game Science Conference, EGC 2015.[2]

GoStyle Project[3], researching possibilities of machine-learning in the game of Go, 2012–present.

Software Engineer, NCR, February–August 2014.

Software Quality Engineer, Sun Microsystems, 2006–2007.

Education

Ph.D. Studies, Advanced Machine Learning in Games, Charles University in Prague, Faculty of Mathematics and Physics, 2014–present.

Master of Science — Mgr. degree, Theoretical Computer Science (specialization in Artificial Intelligence), Charles University in Prague, Faculty of Mathematics and Physics, 2009–2013.

Erasmus, Saarbrücken, Germany, September 2010–July 2011.

Bachelor of Science — Bc. degree, General Computer Science, Charles University in Prague, Faculty of Mathematics and Physics, 2006–2009.

Publications

Moudřík, Neruda: **Determining Player Skill in the Game of Go with Deep Neural Networks**. Proceedings of TPNC, 2016.

Moudřík, Neruda: **Evolving Non-linear Stacking Ensembles for Prediction of Go Player Attributes**. Proceedings of IEEE SSCI, 2015.

Moudřík, Baudiš, Neruda: **Evaluating Go Game Records for Prediction of Player Attributes**. Proceedings of IEEE CIG, 2015.

Moudřík Josef: **Meta-learning methods for analyzing Go playing trends**. Master thesis, Charles University in Prague, Faculty of Mathematics and Physics, 2013.

Moudřík, Baudiš: **Evaluating Go Game Records for Prediction of Player Attributes**. Presentation, European Go Congress Scientific Conference, 2013.

Baudiš, Moudřík: **On Move Pattern Trends in a Large Go Games Corpus**, 2012. URL: `http://arxiv.org/abs/1209.5251`

Moudřík Josef: **V1 model with a realistic distribution of functionally different neuron classes**. Bachelor thesis, Charles University in Prague, Faculty of Mathematics and Physics, 2009.

Moudřík, Machálek, Antolík, Brom: **Výpočetní model primární zrakové kůry: preference složitých tvarů a realistický vznik komplexních buněk**. Proceedings of Kognicia a umely zivot IX (Czech/Slovak conference), 2009.

Last updated: July 23, 2020

[2] `http://pasky.or.cz/iggsc2015/`
[3] `http://gostyle.j2m.cz`