Jugoslav Stojcheski
M.Sc. in Machine Learning
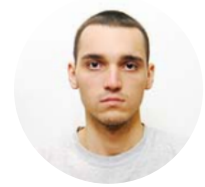
jstojcheski.github.io   @ jugoslav.stojcheski@gmail.com
github.com/jStojcheski   in linkedin.com/in/jStojcheski
scholar.google.com/citations?user=GXYrGPIAAAAJ
Berlin, Germany
Citizenship: Republic of Macedonia

PROFESSIONAL EXPERIENCE

Present
Jan 2022

Machine Learning Engineer @ Maddox AI
Tübingen / Berlin, Germany

> Working on product development and customer project execution.
> Gained solid practical experience on applying deep learning methods on numerous diverse data sets.

Oct 2021
May 2021

Master Thesis Student @ Robert Bosch GmbH
Center for Research and Advance Engineering
Renningen, Germany

> Worked on development and application of deep learning methods on LIDAR data to facilitate prediction of occupancy grid maps for autonomous vehicles.

Oct 2020
Oct 2019

Research Assistant @ Max Planck Institute for Intelligent Systems
Rationality Enhancement Group
Tübingen, Germany

> Worked on development and application of *Markov Decision Processes (MDPs)* to digital companions for goal-setting, goal-achievement, and self-improvement.
> Worked on development of reinforcement learning methods for discovering and teaching effective strategies for planning and decision making.

Nov 2018
Feb 2018

Research Intern @ Macedonian Academy of Sciences and Arts
Research Center for Computer Science and Information Technologies
Skopje, Macedonia

> Worked on statistical analysis of the impact of climate change on the development of the countries in the world.
> Worked on merging, cleaning, and standardizing data from multiple sources.
> Applied the *Connection Weights* algorithm to estimate numerical feature significance.
> Applied advanced probabilistic methods such as *Weighted Stochastic Block Model*.
> Applied advanced graph-based message-passing algorithms such as *Affinity Propagation*.

EDUCATION

Nov 2021
Oct 2019

M.Sc. in Machine Learning   GPA: 1.46 / 1.00[1]
Faculty of Science @ Eberhard Karls University
Tübingen, Germany

> Worked on various research topics in machine learning such as adversarial training, reinforcement learning.

Nov 2018
Sep 2014

B.Eng. in Information Technologies - Computer Science and Engineering   GPA: 8.90 / 10.00[2]
Faculty of Computer Science and Engineering @ Ss. Cyril and Methodius University
Skopje, Macedonia

> Worked on various projects related to data mining, natural language processing, robotics, and time series.

---

[1]German grading system. Scale from 5 (failed) to 1 (very good).
[2]Macedonian grading system. Scale from 5 (failed) to 10 (very good).

Toolkit

Programming Languages	Proficient with **Python**
	Familiar with **C**, **C++**, **Java**, **MATLAB**, **R**, **Shell**
Frameworks and Libraries	**Jupyter**, **Matplotlib**, **NumPy**, **OpenCV**, **Pandas**, **PyTorch**, **Scikit-Learn**, **TensorBoard**, **W&B**, …
Development Tools	**Anaconda** package manager
	Git versioning tool
	VS Code code editor
	IBM LSF & **SLURM** workload managers for large-scale computing
	Jira task management tool
	Singularity virtualization / containerization tool

Publications

2022 | A Cautionary Tale About AI-Generated Goal Suggestions
Falk Lieder, Pin-Zhen Chen, Jugoslav Stojcheski, Saksham Consul, Viktoria Pammer-Schindler
Proceedings of Mensch und Computer 2022, 354-359

2022 | Leveraging Machine Learning to Automatically Derive Robust Decision Strategies from Imperfect Knowledge of the Real World
Aashay Mehta, Yash Raj Jain, Anirudha Kemtur, Jugoslav Stojcheski, Saksham Consul, Mateo Tošić, Falk Lieder
Computational Brain & Behavior 5 (3), 343-377

2022 | Improving Human Decision-Making by Discovering Efficient Strategies for Hierarchical Planning
Saksham Consul, Lovis Heindrich, Jugoslav Stojcheski, Falk Lieder
Computational Brain & Behavior 5 (2), 185-216

2022 | Leveraging AI for effective to-do list gamification
Saksham Consul, Jugoslav Stojcheski, Falk Lieder
Mensch und Computer 2022-Workshopband

2021 | Optimal To-Do List Gamification for Long Term Planning
Saksham Consul, Jugoslav Stojcheski, Valkyrie Felso, Falk Lieder
arXiv:2109.06505

2020 | Improving Human Decision-Making using Metalevel-RL and Bayesian Inference
Anirudha Kemtur, Yash Raj Jain, Aashay Mehta, Frederick Callaway, Saksham Consul, Jugoslav Stojcheski, Falk Lieder
"Challenges of Real-World Reinforcement Learning" workshop @ NeurIPS 2020

2020 | Optimal to-do list gamification
Jugoslav Stojcheski, Valkyrie Felso, Falk Lieder
arXiv:2008.05228

2020 | Leveraging machine learning to automatically derive robust planning strategies from biased models of the environment
Anirudha Kemtur, Yash Raj Jain, Aashay Mehta, Frederick Callaway, Saksham Consul, Jugoslav Stojcheski, Falk Lieder
CogSci 2020

Languages (CEFR level)

English	German	Macedonian	Portuguese	Serbian
C1	A2 / B1	C2	A1	B2 / C1

Referees

Referees available upon request.