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TECHNICAL SKILLS

- Python with PyTorch and TensorFlow
- Microsoft Azure Cloud
- MySQL and PostgreSQL
- PowerBI
- Git

CONCEPTUAL SKILLS

- Problem solving and critical thinking
- Machine learning and deep learning
- Data analysis
- Natural language processing and image processing
- Optimization
- Statistics

LANGUAGES

- Serbian | C2
- English | C1
- Portuguese | B2

STEVO RACKOVIĆ

·Data Scientist·

·Machine Learning Expert·

PROFESSIONAL EXPERIENCE

Data Scientist

2023 – present

Vega IT | Novi Sad

- Research and development with applications of Large Language Models in InsurTech
- Developing an agentic pipeline for knowledge extraction from documents
- Prompt engineering
- Python, PostgreSQL, HuggingFace, LangChain, Azure, Git

Researcher

2019 – 2023

Institute for Systems and Robotics | Lisbon

- Research on task offloading in networks of machines
- Developing deep reinforcement learning agents in PyTorch
- Research in distributed optimization and machine learning models with applications in the animation industry

Researcher

2018 – 2019

Faculty of Sciences | Novi Sad

- Developing models for distributed implementation of the common machine learning algorithms

Intern

2018

BioSense Institute | Novi Sad

- Developing a classifier to accurately recognize the cultures planted in specific fields using satellite images

EDUCATION

PhD in Statistics and Stochastic Processes 2019 – present

Instituto Superior Tecnico | Lisbon

- The curriculum covers machine learning, optimization, and statistics with a high demand for both theoretical and practical skills
- Thesis: “Distributed optimization of bio-kinetic models based on large 4D sequences”
- Solving large-scale optimization problems in the facial animation, with the focus on a distributed optimization setting for reducing computational costs

MSc in Applied Mathematics – Data Science

2016 – 2018

Faculty of Sciences | Novi Sad

BSc in Applied Mathematics – Mathematics of Finance

2013 – 2016

Faculty of Sciences | Novi Sad

PUBLICATIONS

- “*Clustering of the Blendshape Facial Model*”,
S. Rackovic, C. Soares, D. Jakovetic, Z. Desnica, R. Ljubobratovic,
2021, 29th European Signal Processing Conference (EUSIPCO)
- “*A Hybrid Compartmental Model with a Case Study of COVID-19 in Great Britain and Israel*”,
G. Malaspina, S. Rackovic, F. Valdeira,
2023, Journal of Mathematics in Industry
- “*Distributed Solution of the Blendshape Rig Inversion Problem*”,
S. Rackovic, C. Soares, D. Jakovetic,
2023, SIGGRAPH Asia 2023 Technical Communications
- “*A Majorization–Minimization-Based Method for Nonconvex Inverse Rig Problems in Facial Animation: Algorithm Derivation*”,
S. Rackovic, C. Soares, D. Jakovetic, Z. Desnica,
2023, Optimization Letters
- “*Refined Inverse Rigging: A Balanced Approach to High-fidelity Blendshape Animation*”,
S. Rackovic, D. Jakovetic, C. Soares,
2024, SIGGRAPH Asia 2024 Conference Papers
- “*PeersimGym: An Environment for Solving the Task Offloading Problem with Reinforcement Learning*”,
F. Metelo, C. Soares, S. Rackovic, P. A. Costa,
2024, Joint European Conference on Machine Learning and Knowledge Discovery in Databases. Cham: Springer Nature Switzerland
- “*Extreme Multilabel Classification for Specialist Doctor Recommendation with Implicit Feedback and Limited Patient Metadata*”,
F. Valdeira, S. Rackovic, V. Danalachi, Q. Han, C. Soares,
2023, arXiv preprint