STEVO RACKOVIĆ

·Data Scientist·
·Machine Learning Expert·

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TECHNICAL SKILLS

- Python with PyTorch and TensorFlow
- Microsoft Azure
- 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
- English
- Portuguese

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

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