

Mihailo Radović

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Research interests: generative models (flow matching, diffusion), robot learning and control, reinforcement learning, and world models, with the long-term goal of general-purpose autonomous agents.

EDUCATION

University of Belgrade, School of Electrical Engineering <i>MSc in Applied Mathematics</i>	Belgrade, Serbia 2025 – present
Union University, School of Computing (RAF) <i>BSc in Computer Science</i>	Belgrade, Serbia 2021 – 2025
Thesis: <i>SpriteFlow: Flow matching for pixel-art character generation</i> , advised by Prof. Nemanja Ilić.	

PUBLICATIONS

Flow Matching Policy for Behavioral Cloning [\[code\]](#)
M. Radović, F. Marčić. *IcETRAN 2026* (IEEE Xplore, to appear).
Models the behavioral cloning action distribution as a continuous-time flow; competitive with or better than Gaussian and diffusion policies on D4RL benchmarks (MuJoCo locomotion, Franka Kitchen, AntMaze).

PRESENTATIONS & SUMMER SCHOOLS

Eastern European Machine Learning Summer School (EEML 2026) <i>Selected participant; poster: Flow Matching Policy for Behavioral Cloning</i>	Cetinje, Montenegro Jul – Aug 2026
IcETRAN 2026 <i>Paper presentation: Flow Matching Policy for Behavioral Cloning</i>	2026

RESEARCH PROJECTS

SpriteFlow: Flow Matching for Pixel-Art Character Generation (BSc thesis) [\[code\]](#)
Flow matching model with a time-conditioned U-Net generating 128×128 RGBA sprites; ODE and SDE sampling, linear and cosine noise schedules, EMA, and FID-based evaluation and model selection.

Proximal Policy Optimization from Scratch [\[PyTorch\]](#) [\[JAX\]](#)
Reimplemented PPO from the original paper and compared it with A2C and vanilla policy gradient on MuJoCo locomotion (HalfCheetah, Hopper, Walker2d, Swimmer; 3 seeds). Rewrote it in JAX and trained on MuJoCo Playground (MJX) Cartpole Balance and Swing-Up.

Football Analysis [\[code\]](#)
Open-source video analysis tool with 175+ GitHub stars: YOLO11 detection, ByteTrack tracking, keypoint-based homography for player positions, and K-means team assignment from jersey colors.

WRITING

Technical Blog mihailoradovic.com/blog
Articles on my research in machine learning and in-depth write-ups of the mathematical foundations I find interesting.

EXPERIENCE

Nordeus <i>Junior Data Engineer</i>	Belgrade, Serbia 2025 – present
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HONORS & AWARDS

First Place, Google Build with AI Hackathon SafeSpace: multi-agent platform for hate-speech detection and social-media sentiment analysis, with a Gemini detector fine-tuned on Serbian data, a Wav2Vec2 transcription pipeline, and an agent-based assistant for parents.	May 2025 [post]
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SKILLS

Programming: Python, C, C++, CUDA, SQL, Java, MATLAB

ML & tools: PyTorch, JAX, Hugging Face Transformers, Gymnasium, MuJoCo / MJX, scikit-learn, OpenCV, NumPy, pandas, Weights & Biases, Git, L^AT_EX