

Denis Sudakov

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EDUCATION

Lomonosov Moscow State University
Undergraduate

Moscow, Russia
Sep. 2025 – Jun. 2029

EXPERIENCE

Freelance ML Engineer
Independent

Nov. 2024 – Present
Remote

- Trained a transformer encoder–decoder that generates marketplace product descriptions from variable-length sets of product images.
- Fine-tuned a small language model with SFT + GRPO for reliable tool use — a custom agent for internal use at a startup.

Specialist
MSU

Jun. 2026 – Aug. 2026
Moscow, Russia

- Taught three courses in one summer for different audiences.
- **ML overview course (8 lectures)** for two groups of students from the UAE (58 people): ML fundamentals, generative AI, and modern AI systems.
- **AI agents course (2 sessions)** for the Bstudy international school.
- **Machine learning in robotics (2 lectures)** in the corporate “Razgon” program.

PROJECTS

apiary: a fleet of personal AI agents | *TypeScript, Bun* | [github](#)

2026 – Present

- Service for a fleet of personal AI agents, each a self-contained git repo (persona, skills, memory): lifecycle management, provider auth, a browser client, containerized deployment. Seven agents in daily use.

su-JEPA: latent world model for ARC-AGI-3 | *Python, JAX, Flax* | [github](#)

2026

- Latent world model (JEPA): 96M-parameter causal transformer over 512-d latents, trained on ~50M transitions from 20 games on a single RTX 5070. Evaluated on held-out games: one-step loss 1.0 → 0.10, cosine 0.89.

3D model quality control (AI Challenge, Sber) | *PyTorch, DINOv3, CV* | [github](#)

2026

- Classification of 10 mesh defects and quality flags on 8,964 objects: frozen DINOv3 features from 6 renders + geometry → attentive probe, **13.86 on the public leaderboard**. Building a mesh-JEPA encoder for local defects.

Whisper fine-tuning for Russian voice input | *Python, PyTorch, GGML* | [github](#)

2026

- Full data loop for ASR: audio collection and annotation, fine-tuning, quantized GGML build, FLEURS evaluation gate (no degradation), and a web interface for the whole pipeline.

TECHNICAL SKILLS

Languages: Python, Go, TypeScript, SQL, Bash

LLM Systems: agents, prompt engineering, fine-tuning (Whisper), evaluations, local LLMs (llama.cpp)

ML: JAX, Flax, PyTorch, NumPy, pandas; latent world models (JEPA), computer vision

Infrastructure: Linux, NixOS, Docker, systemd, Git, Caddy