



Artem Shcherbina

AI/ML Senior Engineer | PhD in Mathematics and Statistics

Phone: +359882597932

Address: Saint Vlas, Bulgaria

Website: <https://brilliantflux.agency/>

Email: artem@brilliantflux.agency

Senior AI/ML Engineer with PhD in Mathematical Statistics and 15+ years building production AI systems used by 350M+ users globally. Expert in LLM training/deployment, computer vision, and document understanding. I am passionate about applying NLP, LLMs, and machine learning to solve complex real-world problems.

Selected achievements:

- **ICDAR 2025 – 1st Place** in Literary Epochs Classification.
- **ICDAR 2024 – 2nd Place** in Multi-Font OCR competition.
- Developed **gesture interaction features** used in **350M+ Samsung Galaxy devices**.
- Contributed to **Samsung Gauss** document understanding pipeline.
- **Samsung Premiere 5** – Developed camera-projector calibration and real-time touch interaction algorithms.
- Multiple scientific **publications** and two top-grade **patents** in augmented reality and gesture interaction.

EXPERIENCE

Brilliant Flux

November 2025 - present

Founder

Founded AI automation agency specializing in practical AI implementation for European SMBs.

- Developing training simulator for travel industry crisis management
- Conducting client discovery and solution design for process automation
- Building portfolio of AI automation use cases (document intelligence, workflow optimization, chatbots)

Samsung Ukraine

January 2010 - September 2025

Senior AI/ML Engineer

Key Impact:

- Shipped gesture recognition features to 350M+ Samsung Galaxy devices
- Won 2nd place ICDAR 2024 (multi-font OCR), 1st place ICDAR 2025
- Led AI/ML community (50+ engineers), accelerating GenAI adoption
- Contributed to Samsung Gauss document understanding pipeline

LLM & NLP:

- Trained and deployed LLMs on multi-GPU clusters (PyTorch Lightning, DVC) achieving 3% above target accuracy
- Built internal RAG chatbots and document assistants serving 100+ employees
- Optimized inference with llama.cpp, vLLM, quantization (2x speedup)

Computer Vision & OCR:

- Built document understanding models for multi-modal text processing
- Created AR/VR gesture interaction systems and camera-projector calibration

Leadership:

- Provided technical leadership for cross-functional teams (5-15 engineers)
- Established ML evaluation frameworks measuring product impact
- Researched and adopted cutting-edge AI frameworks for production use

SKILLS

Core expertise

- LLMs & NLP: Training/deployment · RAG · Prompt Engineering · Document Understanding
- Computer Vision: OCR · Multi-modal Learning · AR/VR · Gesture Recognition
- ML Infrastructure: Multi-GPU Training · MLOps · Model Optimization · CI/CD

Technologies

- Frameworks: PyTorch · PyTorch Lightning · TensorFlow · Hugging Face · OpenCV
- MLOps: MLflow · DVC · Docker · SLURM · GitHub Actions · vLLM
- Languages: Python (expert) · C++ · R · Bash
- Databases: Qdrant · Vector DBs · PostgreSQL

Product skills

- End-to-end AI product development · Technical leadership · Research to production

EDUCATION

Taras Shevchenko National University of Kyiv

September 2009 - January 2013

Doctor of Philosophy - PhD, Mathematical Statistics and Probability

Taras Shevchenko National University of Kyiv

September 2005 - June 2009

Master's degree, Statistics

- Graduated with honors, grade 100%
- Gained deep knowledge of mathematics and statistics - basis of current AI and ML
- Participated in multiple conferences and workshops on statistics