

BOGDAN GORELOV

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EDUCATION

Master 2 IASD, Université Paris Dauphine–PSL 2026 - 2027

Relevant coursework: Deep Learning, Reinforcement Learning, Generative AI, NLP, Computer Vision, Optimization for ML, Agentic AI, Large-Scale ML

Master 1 Data Science, Université Paris-Saclay 2025 - 2026

Average grade: **16.11/20** (approx. **3.80/4.00** US GPA)

Relevant coursework: Machine Learning, Data Warehouse, Data Lake, Probabilities & Statistics, Distributed Data Processing, Operational Research, Advanced Python Programming

Bachelor's in Computer Science, Université Paris-Saclay 2021 - 2025

Relevant coursework: Introduction to Machine Learning and NLP, Symbolic AI, Calculus, Linear Algebra, Discrete Mathematics, Computer Science 101

EXPERIENCE

Data Scientist (Apprenticeship), BNP Paribas Sept 2025 – Sept 2027

Paris, France

- Designed reproducible evaluations of generative AI and agentic systems, defining task suites, quantitative metrics, and failure taxonomies to compare model capability, reliability, and deployment risk.
- Developed a modular Python + LangChain API integrating RAG, OCR, STT, prompts, and DevSecOps practices deployed end-to-end via CI/CD on cloud infrastructure.
- Authored comprehensive technical documentation synthesizing the state of the art in ML, Deep Learning, Generative AI and LLMs, serving as the team's primary reference.

PROJECTS

Synthetic Transactional Data Generation (Statistics + LLM) Designed a hybrid Python/LLM generator combining a semantically-grounded item catalog and LLM-derived product affinity matrices with a declarative statistical engine (Zipf, log-normal distributions) for deterministic ground-truth pattern planting. Validated structural and distributional fidelity via OFAT experiments across SPMF mining algorithms (FPGrowth, Eclat, HUI-Miner, FHM), measuring Recall and runtime.

Heuristic Search & Bitwise Optimization (Dual Sudoku) Implemented and benchmarked adversarial search (Minimax, Alpha-Beta Pruning) against stochastic planning (MCTS with UCB1), optimizing performance through bitmask state representation and an incremental heuristic evaluation function integrated into backtracking.

Adaptive Cognitive Profiling (Hi!ckathon 2025 – HEC Paris & IP Paris)

Winner – Capgemini Best Scientific Approach Award. Built an adaptive learning system segmenting content into micro-units calibrated to individual cognitive profiles. XGBoost model trained on 1.17M PISA samples (2015–2022) for math performance prediction, with behavioral feature engineering and SHAP-based interpretability.

EXTRACURRICULAR ACTIVITIES

- Attended events: Hi!ckathon 2025, European Defense Tech Hackathon, VivaTech, AI Pulse, GDG Paris, Ph.D. of Jérémie Kalfon: scPRINT, HEC FinTech Hackathon, OpenAI Privacy Hackathon, AI Engineer Conference
- Self-directed study of Stanford CS231n (Deep Learning for Computer Vision).
- Member of DAU'IA - AI Student Association

LANGUAGES & SKILLS

- French — Native / C2
- English — 950/990 TOEIC / C1+
- Russian — Native / C2