

Anton BELY

anton.belyy@gmail.com · avbelyy.github.io

LinkedIn · GitHub · Scholar

EDUCATION

AUG '19 — MAY '22	M.Sc.Eng. in Computer Science (NLP) , Johns Hopkins University, USA GPA: 4.0. Advisors: Benjamin Van Durme (Primary), Vladimir Braverman (Secondary) Research projects: knowledge graph completion, controlled text generation, schema induction Research internship on Conversational AI at Microsoft Research in Summer '21: [paper]
SEP '13 — MAY '18	B.Sc. in Informatics and Applied Mathematics , ITMO University, Russia GPA: 3.6. Advisors: Andrey Filchenkov (Primary), Konstantin Vorontsov (Secondary) Research projects: plagiarism detection, hierarchical topic modeling Thesis: Construction and Quality Evaluation of Heterogeneous Hierarchical Topic Models <ul style="list-style-type: none">• Distinguished thesis award (given to 2 out of approx. 50 undergraduates)

EMPLOYMENT

JUN '25 — PRESENT	Senior AI Software Engineer in AI Assistant , Bloomberg, USA <ul style="list-style-type: none">• MCP Tools: I build and maintain MCP tools powering Bloomberg AI Assistant, ensuring high availability and factuality of AI agents used by 100s of thousands of Terminal users.• MCP Resources: I lead the adoption of MCP Resources as an agent-tool communication layer to enable higher factuality & lower latency / LLM token usage across all Bloomberg AI agents.
JUN '24 — MAY '25	Senior Machine Learning Engineer in Credit Risk Detection , Stripe, USA <ul style="list-style-type: none">• Proactive LLM agents: I built LLM agents to investigate merchants' online presence to detect early signs of bankruptcies, projected to save several million USD in credit losses yearly.• XGBoost → Transformer: I led an experimental project migrating Stripe's credit scoring models from XGBoost to Transformer-based DNN, leading a team of five ML engineers.
JUN '22 — MAY '24	Machine Learning Engineer in Knowledge Graphs and LLM Datasets , Apple, USA <ul style="list-style-type: none">• KG: I am a founding engineer of the ODKE project, which transforms unstructured Web data into millions of facts every week to continuously improve coverage and freshness of Apple KG. I implemented scalable fact extractors using in-house and OpenAI LLMs, built fact verification model using Spark MLlib, built CI/CD pipelines and oversaw integrating ODKE with Apple KG.• LLM Datasets: I used MapReduce, Spark and ML to turn petabytes of multimodal Web data into billion-scale, high-quality datasets used to train LLMs for Siri and Apple Intelligence.
SEP '17 — AUG '19	Machine Learning Engineer in Risks and ML Automation , Tochka Bank, Russia <ul style="list-style-type: none">• Risk scoring: using Hadoop and Spark, I enriched internal data for 200K+ bank clients and 50M+ transactions with Web-scraped public data to improve risk scoring accuracy by 10%.• ML automation: built ML models to detect intent for the top-90% client questions in chat. Built systems to automate scheduling call center shifts while improving accuracy by 10%.
OCT '15 — SEP '16	Software Engineer in Ads , VK.com, Russia <ul style="list-style-type: none">• URL fraud: built service to periodically detect malicious URL redirect changes in VK ads.• Click fraud: built ML models to detect users that generate fraudulent clicks in VK ad network. Model was deployed semi-automatically and helped recover up to 3% monthly ad revenue.• Ads search: launched moderator search interface (incl. full-text search) over 30M+ VK ads.• Ads scoring: implemented advertiser ranking for faster moderation of top-10% clients.

LANGUAGES AND TECHNOLOGIES

LANGUAGES	Python (advanced); Golang, Scala, JavaScript, SQL, C++, bash (proficient)
TECHNOLOGIES	Airflow, Spark, Iceberg (advanced); XGBoost, PyTorch, AWS, Docker, K8s (proficient)