# Elena Markova — Senior AI & Applied ML Strategist

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## Profile

AI leader with 15+ years turning real business problems into production AI. Ships reliable systems (classification, search, summarization, forecasting), sets pragmatic GenAI strategy, and mentors engineers. Strong at discovery → PoC → scalable deployment, model evaluation, and risk/quality governance across cloud environments.

## Core Expertise

- GenAI adoption & product strategy
- Retrieval-augmented apps, embeddings, vector search
- Text analytics: classification, NER, summarization, semantic search
- Forecasting & anomaly detection for operations/finance
- MLOps: CI/CD for models, monitoring, evaluation, governance
- Stakeholder alignment, workshops, & enablement

## Technical Skills

- Programming: Python, SQL, Bash
- ML Frameworks: PyTorch, scikit-learn, Transformers ecosystem
- Data & Infra: Docker, Kubernetes, Spark (basic), REST/gRPC services
- Cloud: Azure ML, AWS (SageMaker, ECS/EKS)
- Ops: Experiment tracking, model registries, feature stores, prompt/tooling frameworks

## Professional Experience

**Novacore Systems — Principal AI Strategist (2024 — Present)**

- Own AI roadmap across two product lines; shipped LLM-augmented search and auto-summary features with measurable adoption uplift.
- Designed evaluation harness (offline + human review) and risk checks for PII, leakage, and drift.
- Coached 30+ devs on "AI for coding/productivity," accelerating delivery of ML-backed features.
- Partnered with Legal/Sec to formalize model usage guidelines and vendor selection.

**Aurelia Mobility — Senior Applied Scientist (NLP/ML) (2020 — 2024)**

- Built document understanding and case-routing pipelines that cut handling time by 38%.
- Introduced vector search for internal knowledge retrieval; reduced ticket resolution time.
- Migrated PoCs to containerized microservices with blue/green deploys and telemetry.

**Atlas Insight Lab — Applied AI Scientist (2017 — 2020)**

- Led initiatives in text analytics and search relevance; created reusable components for ingestion, training, and evaluation.
- Drove experiments on summarization and topic labeling for analyst workflows.
- Mentored junior data scientists; introduced lightweight model review practices.

**CortexAI Studio — Data Scientist (NLP/ML) (2013 — 2017)**

- Delivered end-to-end pipelines for classification and information extraction on large text corpora.
- Set up annotation QA loops and reproducible training jobs; documented runbooks for ops.

## Education

- M.Sc. in Artificial Intelligence (2012 — 2014), EuroTech School of Engineering (Berlin)
- Focus: Machine Learning, Deep Learning, Probabilistic Modeling, Optimization, Data Engineering, Responsible AI
- B.Sc. in Computer Science (2008 — 2012), Danube University of Applied Sciences

- Core coursework: Algorithms & Data Structures, Databases, Operating Systems, Distributed Systems, Software Engineering

## Professional Development (selected)

- MLOps Specialization — model deployment, monitoring, and CI/CD (2023)
- Applied GenAI Practicum — prompt patterns, RAG architectures, evaluation & guardrails (2024)
- Product Strategy for AI — metrics, experimentation, stakeholder alignment (2022)

## Languages (spoken)

English (fluent) · French (professional) · Bulgarian (conversational)

## References

Available on request.