# Senior Machine Learning Engineer – Generative & Agentic Al

**Location**: Hybrid/Remote | **Type**: Permanent | **Level**: Senior (4–5+ years experience)

#### **About the Role**

We are seeking an experienced **Senior Machine Learning Engineer** to design, build, and scale advanced Al/ML solutions with a strong focus on **Generative Al** and **Agentic Al systems**. You will play a key role in shaping and deploying next-generation Al applications, driving innovation in large-scale, data-intensive environments.

This is not a junior position — we're looking for someone with solid foundations in **data science** and machine learning, proven hands-on experience, and the ability to architect production-grade GenAl solutions.

## **Key Responsibilities**

- Design, develop, and deploy scalable ML/Al applications in large-scale data environments.
- Build and optimize **Generative AI** and **Agentic AI systems**, leveraging frameworks such as LangFlow, LangGraph, and LangChain.
- Develop solutions around **LLMs**, **RAG/TAG pipelines**, **vectorization**, **and multi-agent architectures**.
- Implement and monitor prompt catalogues and observability workflows (e.g., Langfuse).
- Build robust APIs in Python to integrate ML/AI capabilities into enterprise systems.
- Architect and scale infrastructure on OpenShift, Kubernetes, and cloud-native platforms (Azure/GCP/hybrid).
- Develop and optimize end-to-end ML pipelines with tools like Kubeflow, Airflow, and MLFlow.
- Collaborate with data engineers and product teams to design efficient data pipelines for training and inference.
- Apply AlOps, LLMOps, and MLOps best practices for lifecycle management.
- Conduct model evaluation, monitoring, and optimization using modern techniques and metrics.
- Lead capacity planning and performance optimization for high-throughput AI systems.

#### Required Skills & Experience

- **Education:** Bachelor's or higher degree in Computer Science, Mathematics, Engineering, or related field.
- Experience: 5+ years of hands-on work in machine learning and large-scale Al systems.
- Generative Al & Agentic Al expertise:
  - LLMs, GANs, Transformers
  - RAG/TAG solutions and vectorization
  - Multi-agent systems (LangFlow)
  - Agentic Al development (LangGraph, LangChain)
  - Prompt catalog & monitoring (Langfuse)

#### • Technical Proficiency:

- o ML frameworks: TensorFlow, PyTorch, HuggingFace
- o CUDA, flash attention, VectorDB, GraphDBs (Neo4j)
- o Big Data: Hadoop, Spark, Kafka, Elasticsearch
- o Databases: PostgreSQL, MongoDB, HBase
- o Data lakehouse: MinIO, S3, Iceberg
- o Containerization & orchestration: Docker, Kubernetes, OpenShift
- Cloud-native (Azure, GCP, hybrid infra)
- Python (expert), Linux & bash scripting
- Strong understanding of feature engineering, data wrangling, and ML model evaluation.
- Experience working in **Agile teams**, delivering results in **fast-paced environments**.

# Nice-to-Have (Plus)

- Experience with deep learning and NLP techniques.
- Familiarity with Solr, NiFi, and additional Big Data technologies.
- Exposure to cutting-edge research in GenAl/Agentic Al.

## What We're Looking For

We understand no candidate will tick every single box. The most critical requirements are:

- A strong data science/ML background
- Proven hands-on experience in Generative Al and Agentic Al (LangFlow, LangGraph, LangChain)
- Ability to architect and scale real-world Al solutions in production environments

If you bring these, we want to hear from you.

This role is open for one of our business partners in Turkiye. Please send your resume via this application form: <a href="https://linmetrics.com/DgQnt">https://linmetrics.com/DgQnt</a>