

Cristina

Senior Senior AI/ML & MLOps Engineer

SUMMARY

- Senior AI/ML & MLOps Engineer with 8+ years operationalizing ML systems across GCP, AWS, Azure, specializing in Python, Kubeflow, VertexAI, and SageMaker
- Architected multi-agent AI platforms reducing workflow turnaround by 45% and deployment cycles to under 2 hours via CI/CD automation
- Expert in scalable data pipelines using Apache Beam and Dataflow, achieving up to 47% runtime reduction and 40% faster model delivery
- Proven track record optimizing distributed training and inference, increasing accelerator utilization by 31% and cutting cloud costs by 28%
- Computer Science BSc with strong background in software design, containerization (Docker, Kubernetes), and production-grade ML infrastructure

TECHNICAL SKILLS

Main Technical Skills	Python (8 yr.), Kubeflow (4 yr.), Apache Beam (4 yr.), AWS SageMaker (Amazon SageMaker) (6 yr.), Vertex AI (5 yr.)
Programming Languages	Python (8 yr.)
AI & Machine Learning	AWS SageMaker (Amazon SageMaker) (6 yr.), Kubeflow (4 yr.), Machine Learning, RAG, Scikit-learn (6 yr.), Vertex AI (5 yr.)
Python Libraries and Tools	Scikit-learn (6 yr.)
Data Analysis and Visualization Technologies	Apache Beam (4 yr.), ETL
Databases & Management Systems / ORM	Data Lake
Cloud Platforms, Services & Computing	AWS (6 yr.), Azure (6 yr.), GCP (6 yr.)
Amazon Web Services	AWS SageMaker (Amazon SageMaker) (6 yr.)
Azure Cloud Services	Azure VM
Google Cloud Platform	Dataflow (4 yr.)
Deployment, CI/CD & Administration	CD DevOps pipelines, CI/CD
Virtualization, Containers and Orchestration	Docker (6 yr.), Kubernetes (6 yr.)

Version Control	Github Actions (4 yr.)
Other Technical Skills	Agentic AI, Data Processing, Generative AI, Predictive modeling

WORK EXPERIENCE

Senior AI/ML & Agentic Infrastructure Engineer - Alltegrio (Multi-agent Enterprise AI Platform)

Duration: 05/2024-08/2026

Summary:

- Architected a multi-agent enterprise AI platform on Kubernetes using Python and VertexAI, enabling autonomous task orchestration and improving workflow efficiency
- The platform supports generative AI and machine learning workloads across multiple cloud providers with high availability

Responsibilities:

- Designed and implemented containerized retrieval and inference services with semantic search and scalable APIs.
- Established reusable CI/CD pipelines for model validation, image builds, security checks, and staged releases.
- Operationalized AI workloads across GCP, AWS, and Azure with resilient multi-cloud deployment patterns.
- Built post-deployment model monitoring for quality, latency, throughput, and infrastructure health.
- Optimized distributed training and inference workflows in PyTorch and TensorFlow.
- Owned architecture and production troubleshooting for Kubeflow pipelines integrating data preparation, model training, evaluation, approval, and deployment.
- Collaborated with cross-functional teams on design reviews, documentation, and production standards.

Technologies: Python, Kubernetes, VertexAI, Docker, GitHub Actions, Kubeflow, PyTorch, TensorFlow, GCP, AWS, Azure

Senior MLOps & Data Platform Engineer - Mesh-AI (Cloud-Native Data Mesh and ML Infrastructure Modernization)

Duration: 11/2021 - 04/2024

Summary: Led modernization of a cloud-native data mesh spanning GCP, AWS, and Azure, providing governed data products and ML infrastructure to accelerate model delivery and improve operational efficiency.

Responsibilities:

- Built distributed processing pipelines with Apache Beam and Dataflow for feature preparation and batch inference.
- Implemented standardized Kubeflow, VertexAI, and SageMaker workflows for training, evaluation, registration, and production promotion.
- Created automated CI/CD pipelines with GitHub Actions and Docker for model deployment.



- Developed model monitoring workflows for prediction quality, drift, latency, and throughput.
- Optimized autoscaling and resource allocation for containerized inference services on Kubernetes.
- Collaborated with data owners, data scientists, software engineers, and governance stakeholders to define platform standards and resolve production issues.

Technologies: Kubeflow, SageMaker, Apache Beam, Dataflow, VertexAI, GitHub Actions, Docker, Kubernetes, GCP, AWS, Azure

Machine Learning Engineer Cloud & MLOps - ML6 (Production Machine Learning Services and Pipelines)

Duration: 07/2019 – 10/2021

Summary: Developed production machine learning services and end-to-end training and deployment pipelines on GCP and VertexAI, improving prediction latency and availability for cloud-based ML applications.

Responsibilities:

- Developed ML services in Python using TensorFlow, PyTorch, and scikit-learn.
- Built training and deployment pipelines on GCP and VertexAI.
- Containerized inference applications with Docker and deployed on Kubernetes.
- Implemented CI/CD validation for code, data schemas, model artifacts, and deployment configurations.
- Created scalable feature-processing workflows with Apache Beam and Dataflow.
- Partnered with data scientists and software engineers to troubleshoot models and pipelines and establish monitoring practices.

Technologies: Python, TensorFlow, PyTorch, scikit-learn, GCP, VertexAI, Docker, Kubernetes, Apache Beam, Dataflow

Data Scientist & Predictive Analytics Engineer - Tremend (Predictive Analytics and Real-Time Fraud Detection Pipelines)

Duration: 10/2014 - 07/2017

Summary: Built predictive analytics pipelines and a real-time fraud detection workflow processing millions of daily transactions, delivering low-latency predictions and improving model evaluation and throughput.

Responsibilities:

- Developed predictive analytics pipelines in Python and scikit-learn.
- Implemented real-time fraud detection workflow with low-latency predictions.
- Built data preparation, training, and evaluation components with TensorFlow.
- Optimized feature extraction and scoring services for production workloads.
- Collaborated with software engineers, QA, and business stakeholders to define model acceptance criteria and document production support procedures.

Technologies: Python, scikit-learn, TensorFlow



EDUCATION

- **Bachelor of Science (BSc), Computer Science**

University Politehnica of Bucharest - Bucharest, Romania

