

# Panayot P

## Senior Senior ML Engineer with Data Engineering

### SUMMARY

- Senior Machine Learning Engineer with extensive experience in providing innovative machine learning solutions and automation. - Experience with ontology enrichment & transformation, Named Entity Recognition, recommendation systems, sentiment analysis - Experience with Data Engineering stack - Advanced skills in Python, Flask, FastAPI, Redis, Postgres, TensorFlow, PyTorch, Elasticsearch, Docker, and Hugging Face. - Proven track record in data analysis projects implementation.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Python (5 yr.), Machine Learning (6 yr.)
<b>Programming Languages</b>	Python (5 yr.)
<b>Java Frameworks</b>	Apache Spark
<b>Scala Frameworks</b>	Apache Spark
<b>AI &amp; Machine Learning</b>	AWS ML (Amazon Machine learning services), Machine Learning (6 yr.)
<b>Python Frameworks</b>	Django, FastAPI
<b>Data Analysis and Visualization Technologies</b>	Apache Airflow, Apache Spark, Data Analysis
<b>Databases &amp; Management Systems / ORM</b>	Apache Spark, AWS ElasticSearch, PostgreSQL, Redis
<b>Amazon Web Services</b>	AWS ElasticSearch, AWS ML (Amazon Machine learning services)
<b>Deployment, CI/CD &amp; Administration</b>	Ansible
<b>Scripting and Command Line Interfaces</b>	Bash
<b>Message/Queue/Task Brokers</b>	Celery
<b>Virtualization, Containers and Orchestration</b>	Docker
<b>SDK / API and Integrations</b>	FastAPI, Swagger
	FDD



<b>Methodologies, Paradigms and Patterns</b>	
<b>Soft Skills</b>	Leadership, Mentor Aptitude

## WORK EXPERIENCE

### Senior Machine Learning Engineer

05/2024 – Present

**Responsibilities:** My colleagues and I are actively participating in a project focused on improving ontology as a service. In my role, I was tasked with devising and implementing processes to maintain and enrich the ontology, a critical component of a Named Entity Recognition (NER) application. Additionally, I participated in the company hackathon, collaborating with a team to develop a crop recommendation system. Currently, I'm leading the data analysis internship program.

**Technologies:** Python, FastAPI, Redis, PostgreSQL, Elasticsearch, Docker, PyTorch, Hugging Face

### Senior Machine Learning Engineer

04/2023 – 05/2024

**Responsibilities:** As a member of the Quants department, my team and I were tasked with the responsibility of conceiving, reinforcing, and enhancing AI functionalities of our products. Some of the tasks were:

- personalized recommendations of news and research
- sentiment analysis on financial news
- development and improvement of models for selecting top news retraining to specific companies
- capturing the essence of a news article and transforming it into a video clip
- Created PoC that applies LLM to news summarization and improvement of search capabilities. Additionally, I helped with the development of a user interface using ReactJS to exhibit these model capabilities to our clients.

**Technologies:** Python, Django, Redis, PostgreSQL, Tensorflow, Flask, Swagger, ReactJS, Docker, Elasticsearch, Hugging Face

### Senior Machine Learning Engineer

11/2020 – 04/2022

**Responsibilities:** Engaged in a project aimed at collecting data from public companies to be distributed to credit-scoring institutions. My responsibilities included:

- Containerization of the project code base.
- Crawl companies' websites without being banned.
- Create ongoing reports for the client.
- Improve the success rate of the company information found.



**Technologies:** Python, Django, Redis, PostgreSQL, Celery, Elasticsearch, Ansible, Docker

## Machine Learning Engineer

05/2019 – 09/2020

**Responsibilities:** I was part of the R&D team, and the main objective was to create tools that could help the Support Team. Part of my tasks included optimizing the search results on the website, creating a chatbot, and improving the machine translation.

- Automating internal processes such as deployment of Machine Learning models on production.
- Finding and preparing bilingual corpora for training Google AutoML models.
- Data preparation and training of ML models.
- Actively following the latest trends in the field of Natural Language Processing.

**Technologies:** Python, Bash, Flask, Redis, PostgreSQL, Apache Solr, TensorFlow

## Data Engineer

10/2018 – 05/2019

**Responsibilities:** I was part of the R&D team in the Experian Analytic Center of Expertise department. I've worked on external products and automation of internal processes. Other responsibilities included:

- Mentoring interns and junior data engineers.
- Created demos that were later used by the sales team to pitch new clients.
- Worked on the latest Experian product - Trusso, for which my responsibilities were: preparing training data, training classification models, validating that each trained model works correctly, and deploying it to production.

**Technologies:** Python, Bash, Apache Spark, Redis, PostgreSQL

## Associate Data Engineer

03/2017 – 09/2018

**Responsibilities:** Mentoring interns and writing code reviews.

- Automation of internal processes.
- Worked on an internal product based on Apache Spark with the main purpose of helping the Data Scientists to process big chunks of data. Part of the job was: developing and testing new features, and writing documentation.

**Technologies:** Python, Bash, Apache Spark

## EDUCATION

- **Master Degree in Data Mining** 10/2018 – 02/2020
- **Bachelor Degree in Informatics** 10/2012 – 01/2017

