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Panayot P

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.

SKILLS

Main Technical Skills	Python (5 yr.), Machine Learning (6 yr.)
AI & Machine Learning	Machine Learning (6 yr.)
Programming Languages	Python (5 yr.)
Java Frameworks	Apache Spark
Scala Frameworks	Apache Spark
Python Frameworks	Django, FastAPI
Data Analysis and Visualization Technologies	Apache Airflow, Apache Spark, Data Analysis
Databases & Management Systems / ORM	Apache Spark, AWS ElasticSearch, PostgreSQL, Redis
Amazon Web Services	AWS ElasticSearch
Deployment, CI/CD & Administration	Ansible
Scripting and Command Line Interfaces	Bash
Message/Queue/Task Brokers	Celery

Virtualization, Containers and Orchestration	Docker
SDK / API and Integrations	FastAPI, Swagger
Methodologies, Paradigms and Patterns	FDD
Soft Skills	Leadership, Mentor Aptitude
Other Technical Skills	AWS ML

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

