

Raman S.

Senior Data Scientist/ Machine Learning Engineer

SUMMARY

- Senior Python/ML Engineer with 10+ years in IT and 8+ years of professional Python experience; - Experienced in API and backend development with Python, data processing using Pandas/NumPy, and automation scripting; - Deep SQL expertise, including query optimization and database operations; - Experience with Apache Airflow, Apache Kafka, and Apache Spark/PySpark for data processing and workflow orchestration; - Strong Skills in ML/ NLP frameworks such as TensorFlow, PyTorch, BERT, NLTK, and spaCy; - Extensive AWS experience (S3, Athena, EMR, Redshift, SageMaker) and Kubernetes for scalable deployments; - Built and deployed end-to-end ML pipelines and integrated AI solutions into business workflows; - Leadership as an ML engineering team lead.

TECHNICAL SKILLS

Main Technical Skills	Python (8 yr.), AWS
Programming Languages	C++, Python (8 yr.), R (1 yr.)
AI & Machine Learning	AI, AWS SageMaker, AWS SageMaker (Amazon SageMaker), BERT, GPT, Keras, Kubeflow, Mlflow, NumPy, OpenCV, PyTorch, Spacy, TensorFlow
Java Frameworks	Apache Spark
Scala Frameworks	Apache Spark
Python Libraries and Tools	Beautiful Soup, Keras, NLTK, NumPy, Pandas, PySpark, PyTorch, TensorFlow
Data Analysis and Visualization Technologies	Apache Airflow, Apache Spark, AWS Athena, ML, Pandas, Power BI
Databases & Management Systems / ORM	Apache Spark, AWS ElasticSearch, AWS Redshift, Clickhouse, Query, SQL
Cloud Platforms, Services & Computing	AWS
Amazon Web Services	AWS Athena, AWS EC2, AWS ECR, AWS ElasticSearch, AWS EMR, AWS Redshift, AWS S3, AWS SageMaker, AWS SageMaker (Amazon SageMaker), AWS Timestream (Amazon Time Series Database)
Web/App Servers, Middleware	Apache HTTP Server
	API, OpenAPI



SDK / API and Integrations	
Deployment, CI/CD & Administration	CI/CD
Third Party Tools / IDEs / SDK / Services	Eclipse
Logging and Monitoring	Grafana
Message/Queue/Task Brokers	Kafka, MQT
Virtualization, Containers and Orchestration	Kubernetes
Other Technical Skills	ArcGIS, Data Processing, Guroby, ONNX, Open Street Map, Rasa NLU

EXPERIENCE

Senior Data Scientist, NDA

Duration: Jan. 2024 - Present

Summary: Leading data science initiatives within a global technology consultancy. Focused on designing, developing, and deploying advanced machine learning solutions to meet diverse client needs. Collaborating with cross-functional teams to translate business requirements into data-driven models and actionable insights.

Key Responsibilities:

- Designed and implemented ML models to address complex client challenges;
- Led end-to-end data science workflows, from data preprocessing to model deployment;
- Ensured scalability and maintainability of solutions through best engineering practices;
- Coordinated with stakeholders to align model outputs with business KPIs.

Technologies: Python, TensorFlow, AWS, Kubernetes, MLflow, CatBoost.

Data Science Team Lead, SOFTCORP

Duration: Mar. 2021 - May 2024

Location: Limassol, Cyprus · Remote

Summary: Led the development of an analytical platform in the gambling and betting domain. Oversaw a team delivering predictive solutions to optimize key metrics such as LTV, RPU, and margin. Developed analytical and optimization models to prioritize achieving business requirements across various games.

Key Responsibilities:

- Architected and led the implementation of a large-scale analytical platform;
- Built predictive models to forecast user behavior and enhance player retention;
- Created optimization frameworks to balance multiple business KPIs;
- Directed a cross-functional team through the full cycle of data science project delivery;
- Ensured system scalability and performance in a high-load production environment.



Technologies: AWS, Kubernetes, Kubeflow, MLflow, TensorFlow, CatBoost.

Senior Machine Learning Engineer, Visutechplating

Duration: 2021 - 2023

Summary: Technical lead and architect of an ML platform for industrial equipment and IoT. Led development of digital twins and optical quality control systems, reducing defects threefold and cutting electricity consumption by ~10%.

Key Responsibilities:

- Designed and implemented ML pipelines for automatic optical quality inspection of products;
- Developed digital twins for industrial equipment to simulate and optimize production processes;
- Architected scalable deployment using AWS services;
- Led a cross-functional team to integrate AI into production lines.

Technologies: Python, TensorFlow, Kafka, Eclipse, MQTT, AWS (EC2, ECR, SageMaker, Timestream).

Data Science Team Lead, Softcorp

Duration: 2020 - 2021

Summary: Led analytics platform development for gambling and betting industry. Built models to predict user behavior and optimize game performance, increasing bets by 15%.

Key Responsibilities:

- Designed predictive models to optimize LTV, RPU, and margin;
- Developed prioritization algorithms for game recommendation systems;
- Managed team of data scientists to deliver production-ready models;
- Integrated analytics pipelines into Kubernetes-based infrastructure.

Technologies: AWS, ClickHouse, Kubernetes, Airflow, Kubeflow, MLflow, TensorFlow, Grafana, Power BI.

Machine Learning Engineer, GFAIVE

Duration: 2018 - 2020

Summary: Developed predictive models for purchase and sales forecasting, doubling conversion rates for targeted customers.

Key Responsibilities:

- Built ML algorithms to forecast customer churn and purchasing patterns;
- Developed optimization models for ad impressions;
- Delivered end-to-end data science solutions from preprocessing to deployment.

Technologies: Python, R, Gurobi, TensorFlow, Keras.

Head of Geospatial Information Research Department, Military Research Institute

Duration: 2011 - 2018

Summary: Led automation of geospatial data acquisition and processing for military applications, reducing map digitization time by 30%.



Key Responsibilities:

- Conducted research on automated geospatial data retrieval from multiple sources;
- Developed digital mapping and navigation solutions for weapons systems;
- Managed data integration from satellite, aerial, and ground sources.

Technologies: C++, OpenCV, OpenStreetMap, ArcGIS.

Coach, IT-Academy (Data Science)

Summary: Trained students in Data Science, guiding them through theory, practice, and diploma projects. All graduates secured positions in IT.

Key Responsibilities:

- Delivered theoretical and practical classes;
- Supervised final projects and prepared students for employment.

Technologies: Python, TensorFlow, PyTorch, PySpark, Keras.

EDUCATION

- **PhD**, Weapons theory, military-technical policy (2012/2015);
- **Military Academy**, Master of Technical Sciences (2010/2011);
- **Military Academy**, Radio and Satellite Telecommunications Engineer (2000/2004).

