



Amirali Sahraei

Machine Learning / AI & Automation Engineer

[LinkedIn](#) [GitHub](#) [Portfolio](#)

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Poland

Languages: English (B2 - IELTS 6)

PROFILE

Machine Learning Engineer (AI & Automation) with 2+ years of hands-on experience in developing scalable backend solutions, CI/CD pipelines, and infrastructure automation across AWS and Azure cloud platforms. Proven expertise in Python development, containerization with Docker, and multi-cloud deployments. Skilled in building automated workflows, API integrations, and monitoring systems using both AWS and Azure services. Experienced with Linux administration, version control, and Agile methodologies. Passionate about streamlining development processes and implementing robust automation solutions for enterprise environments.

SKILLS

Machine Learning, Deep Learning & NLP: PyTorch (Primary), TensorFlow, Keras, Scikit-learn, OpenCV, Hugging Face, LangChain, CNNs, Object Detection, Transfer Learning, GPT-2/3.5/4, RAG, LoRA Fine-tuning, Model Training & Evaluation, Hyperparameter Tuning, Cross-Validation, Feature Engineering, Prompt Engineering, NER, Sentiment Analysis, Text Classification, Tokenization, ROC-AUC, F1-Score, Confusion Matrix

Programming, Automation & DevOps: Python (Advanced), Bash, Ansible, CI/CD Pipelines, Jenkins, GitHub Actions, Infrastructure as Code, Configuration Management, Workflow Automation, n8n Automation Platform, Apache Airflow, Selenium, JavaScript, Automated Testing Frameworks

Cloud, Containerization & Orchestration: AWS (EC2, S3, Lambda, API Gateway, CloudWatch, IAM, VPC, SageMaker, SageMaker Pipelines, Step Functions, EKS), Azure (Virtual Machines, Storage Accounts, Azure Functions, API Management, Azure Monitor, Resource Groups, Azure Machine Learning, Logic Apps, Event Grid, AKS), Docker, Kubernetes (EKS, AKS, on-prem clusters), Helm (basic), Linux/Ubuntu Administration, VM Management, Network Configuration

APIs, Data & MLOps: REST APIs, Flask, FastAPI, Django, AWS API Gateway, Azure API Management, Serverless Architectures, Microservices, Third-Party Integrations, PostgreSQL, MySQL, MongoDB, AWS S3, Azure Storage Accounts, Pandas, NumPy, SQL, Data Pipeline Management, Statistical Analysis, SageMaker Studio, Azure ML, Automated Model Deployment, Retraining, Drift Detection, A/B Testing, Model Monitoring

PROJECTS

- **Automated RAG & LLM fine-tuning System** | Python, Ansible, Sagemaker, EKS, ECS, GithubAction, FastAPI, LLMs | [Link](#)
- **Automated Job Scraping & Notification System** | Python, Selenium, AWS, Flask, n8n, Docker, Kubernetes | [Link](#)
- **Automated Email Classification & Processing System** | Django, LLMs, Asure, pytest | [Link](#)
- **Agents-Based RAG System with LLM and Tavily Search** | LangChain, Groq, RAG, LLMs, Tavily Search, Python | [Link](#)
- **LLM Fine-Tuning with LoRA for GPT-2 and Model Evaluation** | PyTorch, GPT-2, LoRA, Hugging Face, Groq | [Link](#)
- **User Insight ETL** | Python, Jenkins, Asure, SQLAlchemy, PostgreSQL, MongoDB, GraphQL, FastAPI, JWT | [Link](#)
- **FastAPI based app for Lung CT image classification** | FastAPI, PyTorch, Docker, Python | [Link](#)

ACHIEVEMENTS

- **Top 38% Ranking in Kaggle Competition: Binary Prediction with a Rainfall Dataset (2025)**
Ranked **1626th out of 4381** participants, applying ensemble models such as XGBoost, LightGBM, and RandomForest. Focused on feature engineering and model optimization to enhance prediction accuracy, achieving a high Area Under the ROC Curve (AUC) in a binary classification task.

EXPERIENCE

- **Python Developer | OCTA | 2021-2023**
 - Developed scalable backend solutions using Python and Flask, enhancing system reliability and maintainability.
 - Built a Flask-based API bridge to connect a PHP platform with smart contracts for seamless integration.
 - Deployed applications using Docker and Kubernetes (EKS/AKS), optimized container resource utilization.
 - Worked in Agile teams using Git, CI/CD, and clean code practices to deliver production-ready software.
- **Recent Professional Development (2023-2025)**
 - Enhanced Cloud & Automation skills with certifications in Fine-tuning LLMs, LangChain, and Hugging Face (DeepLearning.AI).
 - Worked on automated model deployment, MLOps pipelines, and cloud infrastructure orchestration across AWS and Azure.
 - Gained hands-on experience in Python automation, Jenkins CI/CD, Ansible configuration management, and real-time application scaling.
 - Contributed to open-source projects on GitHub and improved communication skills, achieving an IELTS score of 6 (B2).

EDUCATION

Master of Artificial Intelligence | Kharazmi University | 2019 - 2023 | GPA: 17.68 / 20

Bachelor of Computer Engineering | University of Mazandaran | 2015 - 2019 | GPA: 16.5 / 20

CERTIFICATES

- Finetuning Large Language Models
- LangChain for LLM Application Development
- ChatGPT Prompt Engineering for Developers
- Open Source Models with Hugging Face
- Machine Learning Specialization
- Convolutional Neural Network