

**Job Title:** AI/ML Engineer  
**Department:** Web  
**Location:** Indore  
**Job Type:** Full-time  
**Experience:** 3-5 years  
**Notice Period:** 0-15 days (immediate joiners preferred)  
**Work Arrangement:** On-site (Work from Office)

Advantal Technologies is seeking a passionate AI/ML Engineer to join our team in building AI-driven network security solutions. The role involves designing, training, and deploying AI models (e.g. LSTM, Isolation Forest etc.), integrating them into a secure backend, and operationalizing the solution via micro services architecture. Furthermore, candidate must be driven to explore new solutions and do protocol level research for solution optimization and visualization.

### **Key Responsibilities:**

#### **AI/ML Development**

- Design training pipeline and model performance monitoring.
- Design and train deep learning models for anomaly detection and classification using LSTM, IF, and Rule Based detection.
- Build synthetic dataset for protocol.
- Fine-tune thresholds for rule based detection.
- Implement explainable classification logic for model outputs.
- Validate model performance using custom metrics and datasets.

#### **API Development**

- Design and develop Python RESTful APIs using FastAPI or Flask for:
- Raw data ingestion for pre-processing and model training.
- Model inference endpoints
- Trigger calls on anomaly detection.

### **Required Skills & Experience:**

#### **Must-Have**

- 3 to 5 years of experience in AI/ML (especially on anomaly detection).
- Strong experience with PyTorch or TensorFlow for model development.
- Proficient in Python with experience building RESTful APIs.

- Knowledge of Networking protocols such SNMP, Syslog, BMP.
- Understanding of model deployment, serialization, and performance tuning.

**Nice-to-Have.**

- Familiarity with Docker, GitHub Actions, or CI/CD pipelines.
- Experience in exploring scholarly articles for enterprise solution.
- Familiarity with multi-tenant SaaS design patterns.

**Tools & Technologies:**

- Python, PyTorch, TensorFlow, Keras
- FastAPI, Flask
- Git, Docker, Postgres, OpenSSL

If interested, please share resume to [hr@advantal.net](mailto:hr@advantal.net) , Contact: 9131295441