Position Overview

We are looking for a Machine Learning Engineer with 1-2 years of experience to design, develop, and deploy ML models that solve real-world problems. The ideal candidate should have a strong foundation in machine learning, data processing, and software engineering, along with hands-on experience in building and optimizing AI models.

Key Responsibilities

✅ Model Development:

Design, train, and optimize machine learning models for classification, regression, NLP, or computer vision tasks.

Fine-tune pre-trained models (e.g., BERT, GPT, ResNet) for specific business needs.

✅ Data Processing & Feature Engineering:

Clean, preprocess, and analyze structured/unstructured data (text, images, tabular).

Implement feature extraction and selection techniques to improve model performance.

✅ ML Pipeline & Deployment:

Build end-to-end ML pipelines (data ingestion → preprocessing → training → evaluation → deployment).

Work with MLOps tools (MLflow, Kubeflow, TFX) for model versioning and monitoring.

✅ Collaboration & Optimization:

Work with data engineers to optimize data workflows.

Collaborate with software teams to integrate ML models into production systems.

Continuously monitor and improve model performance in real-world applications.

Required Skills & Qualifications

Technical Skills

🔹 Programming:

Strong in Python (NumPy, Pandas, Scikit-learn)

Experience with SQL for data querying

🔹 Machine Learning & Deep Learning:

Hands-on experience with Scikit-learn, TensorFlow, PyTorch

Knowledge of NLP (spaCy, Hugging Face, NLTK) or CV (OpenCV, YOLO, CNN)

Understanding of supervised/unsupervised learning, ensemble methods, neural networks

🔹 MLOps & Deployment:

Familiarity with Docker, Kubernetes, FastAPI/Flask

Experience with cloud platforms (AWS SageMaker, GCP Vertex AI, Azure ML) is a plus

🔹 Data Handling & Visualization:

Proficient in Pandas, SQL, Spark (PySpark)

Experience with Matplotlib, Seaborn, Plotly

Soft Skills

✔ Strong problem-solving and analytical thinking

✔ Ability to explain ML concepts to non-technical stakeholders

✔ Collaborative mindset with good communication skills

Education & Experience

Bachelor’s/Master’s in Computer Science, Data Science, or related field

1-2 years of hands-on experience in ML model development

Portfolio/GitHub with ML projects (academic/industry)

Preferred Experience & Projects

Relevant Projects (Example)

📌 Sentiment Analysis for Customer Reviews

Built an NLP model using BERT & Hugging Face to classify product reviews.

Deployed as a FastAPI service with Docker for real-time predictions.

📌 Fraud Detection System

Developed an XGBoost & Random Forest model to detect fraudulent transactions.

Achieved 95% precision by optimizing feature engineering.

📌 Image Classification for Medical Diagnosis

Trained a CNN model (ResNet) to classify X-ray images (COVID vs. Normal).

Used TensorFlow & Keras, achieving 92% accuracy.

Industry Experience (If Any)

Worked on ML model deployment in a production environment.

Experience with A/B testing and model performance monitoring.

Contributed to automated data pipelines for real-time predictions.