Job Description

AI/ML Research Engineer – Intelligent Systems

⚲ Location

Remote / Hybrid (India)

🕐 Experience

0–2 years (Strong projects & research mindset preferred)

⬜ Role Overview

We are looking for a highly motivated **AI/ML Research Engineer** with a strong foundation in **machine learning, deep learning, and applied research**. The ideal candidate should be comfortable working across the full pipeline — from **problem formulation and data processing** to **model development, evaluation, and deployment**.

This role is best suited for candidates who enjoy **building from scratch**, experimenting with models, and translating research ideas into working systems.

🔧 Key Responsibilities

- Design, develop, and optimize **machine learning and deep learning models** for real-world applications

- Work on **computer vision, signal-based learning, or NLP problems** depending on project requirements

- Perform **feature engineering, model evaluation, and error analysis**

- Convert research ideas into **production-ready APIs** using frameworks like **FastAPI**

- Collaborate on **research papers, technical documentation, and experimental reports**

- Implement **model explainability and performance analysis** techniques where required

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⬜ Required Skills

- Strong programming skills in **Python**

- Solid understanding of **Machine Learning & Deep Learning fundamentals**

- Hands-on experience with **PyTorch / TensorFlow**

- Experience working with **CNNs, sequence models, or transformer-based architectures**

- Familiarity with **REST APIs**, preferably using **FastAPI**

- Experience with **data preprocessing, embeddings, and similarity-based systems**

⭐ Good-to-Have Skills

- Experience with **computer vision pipelines** (e.g., MediaPipe, OpenCV)

- Exposure to **LLMs, embedding models, or vector databases (FAISS, Pinecone, etc.)**

- Research exposure: **papers, capstone projects, or experimental prototypes**

- Understanding of **Explainable AI (XAI)** techniques

- Familiarity with **Docker, Git, and Linux environments**

🎓 Education

- B.Tech / B.E. / Integrated degree in **Computer Science, AI, Data Science, or related fields**

- Strong project portfolio may be considered in place of formal experience

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🛰 What We Value

- Ability to **learn fast and build independently**

- Research-oriented thinking with a bias towards implementation

- Clean, readable code and structured problem-solving

- Curiosity to explore **new ideas beyond standard tutorials**

📌 Why This Role

- Opportunity to work on **cutting-edge AI problems**

- Freedom to experiment and build systems end-to-end

- Strong emphasis on **engineering + research**, not just model training