Junior AI Engineer – Trainee

JOB DESCRIPTION

We are seeking a **AI Engineer – Trainee** who is passionate about working across the Artificial Intelligence (AI), Machine Learning (ML), Data Science (DS), Backend stack. In this role, you will design and develop intelligent applications powered by LLMs, custom ML models, and data pipelines. You will collaborate closely with the product team to build scalable AI solutions and deploy them using FastAPI.

This role is ideal for someone who's curious, hands-on with data and modeling, and ready to contribute to real-world enterprise-grade AI use cases from day one.

EDUCATION AND EXPERIENCE REQUIREMENTS

- Currently in the **final year (4th year)** of a **Bachelor's degree** in **Computer Science, IT, AI**, or related fields
- Prior experience with:
    - **Machine learning or AI projects**
    - **Open-source contributions** are a plus
    - **Kaggle competitions** or a strong **personal GitHub portfolio** is a plus

REQUIRED QUALIFICATIONS AND SKILLS

- Proficiency in **Python** for data science and ML workflows along with FastAPI backend hosting
- Experience with:
    - **Machine Learning** libraries: scikit-learn, XGBoost, LightGBM, etc.
    - **Data Science & Analysis**: pandas, numpy, matplotlib, seaborn, plotly
    - **AI & LLMs**: working knowledge of **LLM**, or **agentic frameworks**
    - **ML Ops & Deployment**: building APIs with **FastAPI**
- Experience in:
    - **Data workflows** – Collecting, cleaning, analyzing, and transforming raw datasets
    - **Model training & evaluation** – Using appropriate metrics, validation strategies
- Familiarity with version control (**Git**), notebooks (**Jupyter/Colab**), and databases (**SQL/NoSQL**)

ROLE AND RESPONSIBILITIES

- Build, fine-tune, and deploy **machine learning models** across classification, regression, clustering, etc.
- Collaborate with data team to design and maintain **data pipelines** for ingesting, cleaning, and transforming raw data
- Build and expose **RESTful APIs** using **FastAPI** to serve models and data intelligence to the frontend/backend systems
- Write clean, modular, and production-grade Python code
- Participate in model evaluation, performance monitoring, and optimization
- Assist in building tools and reusable frameworks for model management and experimentation

DURATION AND COMPENSATION

- **Trainee Duration**: 6 months (Full-time trainee engagement)
- **Compensation:** 6 LPA
- **Post 6-month FTE Conversion**: Based on performance, converted to **Full-Time Engineer** role

PERKS AND BENEFITS

- Direct mentorship from experienced engineers and product team
- Exposure to cutting-edge tech stack across **AI**, **frontend**, and **backend** engineering
- **Direct exposure to clients**, real-world use cases, and enterprise product delivery cycles
- Opportunity to work on live products that serve strategic business operations
- Performance-based bonus opportunities post-FTE conversion
- Access to upskilling resources, product design insights, and internal demos

TERMS & CONDITIONS

- This is a **full-time, paid trainee program**, not an internship.
- Trainees are expected to commit **40 hours/week** and contribute to production deliverables by **working in our office** located at **Thoraipakkam**
- Performance evaluations will be held at **Month 3 and Month 6**
- **FTE offer** is contingent on technical performance, code quality, communication, and initiative
- Must be legally eligible to work in **India**; relocation is **not required** unless stated
- You will be required to join immediately (within 5–15 days) after accepting the offer.