

Senior AI Engineer/GenAI Product Lead

IIS

Lahore, Punjab, PK · Senior · Full Time



Description

About the Job

Join our team—your career journey starts here: not just a job, but a future.

Potential Opportunity

We are seeking a **Senior AI Engineer** to join a growing Industrial Intelligence Solutions division. This role is central to building next-generation IIoT, data, and industrial AI applications that support industries such as Oil & Gas, Manufacturing, Chemicals, Food & Beverages, and Metals & Mining. You will work on impactful projects, developing intelligent software solutions that utilize real-time operational data, advanced analytics, and cutting-edge Generative AI to solve complex industrial challenges. These AI-powered tools are crafted to enhance productivity, improve decision-making, and foster efficiency and innovation in the workplace.

What You'll Lead and Deliver

- Define the end-to-end AI roadmap and steer long-term technical decisions.
- Drive model architecture, experimentation, and evaluation strategies based on current research trends.
- Guide the transition from research prototypes to production-hardened enterprise AI systems.
- Introduce methodologies to ensure reliability, trustworthiness, and explainability in AI systems.
- Architect and optimize LLM-based solutions, including RAG pipelines, agentic workflows, and custom tooling.
- Evaluate, fine-tune, and integrate state-of-the-art models (open-source and proprietary).
- Lead advanced experimentation: model distillation, hybrid search strategies, prompt optimization, hallucination detection, etc.
- Build frameworks for automatic evaluation, versioning, and safe deployment of large-scale AI systems.

- Address enterprise GenAI challenges, including data security, governance, and privacy; hallucination reduction and factual grounding; latency optimization; scalable serving architectures; multi-model routing and cost efficiency; and observability, monitoring, and auditability.
- Collaborate with DevOps and platform engineering to achieve production-grade reliability and SLA-backed performance.
- Work closely with product teams to shape features and AI-driven value propositions.
- Assess enterprise workflows and identify AI-led automation or augmentation opportunities.
- Communicate complex AI concepts to stakeholders in clear, business-oriented language.
- Mentor engineers and establish internal AI engineering standards and best practices.

Requirements

- PhD in Computer Science, Machine Learning, NLP, AI, Data Science, or a closely related field.
- Demonstrated applied research background with publications, patents, or real-world AI deployments.
- 4–8 years of experience in AI/ML engineering or related fields.
- Expert-level Python skills and proficiency in modern ML/AI frameworks.
- Deep understanding of:
 - Large language models, embeddings, vector search
 - AG architectures and LLM orchestration frameworks (LangChain, LlamaIndex, custom stacks)
 - Prompt engineering and evaluation methodologies
 - Distributed systems, microservices, and cloud-native implementations
- Production experience deploying AI systems in enterprise or regulated environments.

Nice-to-Have

- Experience with GPU/accelerator-based model serving.
- Experience with MLOps tooling (MLFlow, Vertex AI, AWS Sagemaker, etc.).

- Contributions to open-source GenAI libraries, research toolkits, or LLM frameworks.
- Prior work in enterprise or Fortune 500 environments.
- Strong understanding of knowledge graphs, structured data pipelines, and hybrid search systems.

We Offer Competitive Benefits

- **Global Exposure:** Opportunities to work on international projects and collaborate with global teams.
- **Competitive Compensation:** A salary package that recognizes your expertise and contributions.
- **Annual Bonus:** Performance-driven rewards based on your gross pay.
- **In-House Lunch:** Delicious meals provided during work hours.
- **Health Insurance:** OPD coverage for you and your parents, plus IPD coverage for you and your dependents.
- **Learning Opportunities:** Access to training programs, workshops, and certifications to enhance your skills.
- **Work-Life Balance:** Paid time off, including annual leave and holidays.
- **Inclusive Environment:** A workplace that celebrates diversity and fosters collaboration.

Why Join Us

You will have the opportunity to work at the forefront of industrial automation and digitalization, contributing to transformative technologies that solve real-world challenges.

What to Expect After Applying

Our hiring process is designed to assess skills and potential in a fair and inclusive manner. After applying, you will be guided through a structured evaluation process to ensure mutual alignment.

We are proud to be an Equal Opportunity Employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.