NOVARTIS

AI Engineer. DDIT Dev.DSAI

Job ID
REQ-10026942
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India

Sommario

Data Science and AI Group (DSAI) is responsible for overseeing the development and implementation of data science and AI initiatives within an DDIT organization for Drug Development.

We are seeking a skilled AI Engineer to join our team, the role involves the development, fine-tuning, and deployment of sophisticated language models, such as GPT, tailored to fulfill specific business requirements. Responsibilities include optimizing model performance and integrating these models into production systems. The ideal candidate should possess a robust background in natural language processing (NLP), machine learning, and software engineering, with a strong inclination towards advancing innovation in artificial intelligence (AI).

About the Role

Roles and responsibilities:

- As an AI engineer have the opportunity to apply your deep expertise in LLM/GenAI technologies in solving real-world healthcare challenges.
- Your main responsibility will be collaborating closely with Drug Development teams to prototype, build, test, and deploy products powered by GenAI/LLM technology on a large scale.
- Accountable for deploying the generative AI solutions.
- Delivery of projects in close collaboration with platform and business teams

Essential Requirements:

Education:

- Bachelor's or master's degree in computer science, Data Science, Machine Learning, or a related field.

Experience / **Professional requirements**

- 5+ years of experience in NLP, machine learning, or AI development, with a focus on language models.
- Strong programming skills in Python, and experience with libraries such as TensorFlow, PyTorch, Hugging Face, or spaCy.
- Hands-on experience with deploying machine learning models into production environments (e.g., using Docker, Kubernetes, AWS, Azure).
- Familiarity with prompt engineering techniques and fine-tuning large language models.
- Knowledge of MLOps practices and tools for monitoring model performance.
- Understanding of AI ethics and compliance issues, including bias mitigation and privacy concerns.
- Customize pre-trained language models for specific use cases by fine-tuning them on domain-specific

datasets.
- Experiment with hyperparameters, model architectures, and training techniques to optimize performance.
- Curate, preprocess, and augment large datasets to improve the quality and generalization of language models.
- Handle tasks related to data cleaning, labeling, and tokenization.
- Design and optimize prompts to guide the model's responses for various tasks.
- Apply prompt tuning, zero-shot, and few-shot learning techniques to improve model accuracy.
- Deploy models in production environments, ensuring they meet performance and scalability requirements.
- Stay updated on industry trends, compliance, and responsible AI guidelines.

Preferred Skills:

- Experience with generative AI models, such as GPT-3, GPT-4, AWS Bedrock Cludia or other LLMs.
- Familiarity with few-shot and zero-shot learning techniques
- Knowledge of cloud-based AI services and serverless architectures.
- Ability to work in an agile development environment and collaborate with cross-functional teams
- Life science / Pharmaceutical domain experience is a big plus

Commitment to Diversity & Inclusion: We are committed to building an outstanding, inclusive work environment and diverse teams representative of the patients and communities we serve.

Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients' lives. Ready to create a brighter future together? https://www.novartis.com/about/strategy/people-and-culture

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Accessibility and accommodation

Novartis is committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to perform the essential functions of a position, please send an e-mail to diversityandincl.india@novartis.com and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

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