JD for Generative AI Instructor - US Cohort

About Us

The name Interview Kickstart might have given you a clue. But here's the 30-second elevator pitch - Interviews can be challenging. And when it comes to the top tech companies like Google, Apple, Facebook, Netflix, etc., they can be downright brutal. Most candidates don't make it simply because they don't prepare well enough. InterviewKickstart (IK) helps candidates nail the most challenging tech interviews.

We have recently launched multiple GenAI courses to help ML and non-ML working professionals explore the world of Generative AI.

We are looking for Generative AI experts - part-time Instructors. This role will provide opportunities to network with other experts, understand learner issues and contribute to the GenAI community.

Requirements:

Technical Expertise in at least one of the following topics:

1. **Deep Learning Fundamentals:**
    - Understanding of neural networks, including feedforward, recurrent (RNN), and convolutional neural networks (CNN).
    - Knowledge of mathematical foundations for Generative AI.
2. **Generative AI Techniques:**
    - Experience with transformer architectures, including encoder-decoder models and the attention mechanism.
    - Proficiency in evaluating Generative AI models using appropriate metrics.
    - Awareness of ethical considerations in Generative AI.
3. **Large Language Models (LLMs):**
    - Understanding of LLM concepts, including pre-training (MLM, NSP) and self-supervision techniques.
    - Knowledge of scaling laws and their implications on model performance.
    - Familiarity with deploying and optimizing LLMs in production environments.

4. **Application Development with LLMs**
    - Retrieval-Augmented Generation (RAG)
    - LangChain as a toolkit for LLM applications
    - Pretraining and fine-tuning LLMs, Instruction Tuning, Learning from Preferences
    - Building a RAG application or a custom AI solution with OpenAI APIs

5. **Diffusion Models:**
    - Expertise in Denoising Diffusion Probabilistic Models (DDPM) and stable diffusion.
    - Experience with fine-tuning diffusion models and understanding latent diffusion techniques.
    - Knowledge of visual transformers and their applications.

6. **Multimodal Models:**
    - Understanding of integrating and processing multiple data types (text, images, audio) in AI models.
    - Familiarity with multimodal learning processes, including representation, alignment, and reasoning.

7. **Reinforcement Learning (RL):**
    - Proficiency in RL fundamentals, including the multi-arm bandit problem and Deep Q-learning.
    - Experience with applying RLHF (Reinforcement Learning from Human Feedback) on LLMs.

8. **Experience with cloud platforms like AWS and tools for AI development and deployment.**

9. **Generative AI for Images and Audio:**
    - Knowledge of text-to-speech synthesis techniques (e.g., Tacotron, WaveNet).
    - Experience in creating and fine-tuning models for new music and sound generation using GANs.
    - Understanding of voice models and integration of voice with LLMs

Preferred Qualifications:

- Advanced degree (Ph.D. preferred) in Computer Science, Artificial Intelligence, or a related field.
- Proven experience in developing and deploying Generative AI models.
- Prior teaching or mentoring experience, particularly in online or remote settings.
- Strong programming skills, particularly in Python, with experience in relevant libraries (TensorFlow, PyTorch, Huggingface Transformers).
- Excellent communication skills, with the ability to explain complex concepts in an accessible manner.

Responsibilities:

- **Instruction Delivery:** Conduct lectures, workshops, and interactive sessions to teach machine learning principles, algorithms, and methodologies. Instructors may use various teaching methods, including lectures, demonstrations, hands-on exercises, and group discussions.
- **Industry Engagement**: Staying current with the latest trends and advancements in machine learning and related fields, engaging with industry professionals, and collaborating on projects or internships to provide students with real-world experiences.
- **Research and Development**: Conducting research in machine learning and contributing to developing new techniques, models, or applications.
- Constantly improve the session flow and delivery by working with other instructors, subject matter experts, and the IK team.
- Help the IK team in onboarding and training other instructors and coaches
- Have regular discussions with IK's curriculum team in evolving the curriculum.
- Should be willing to work on weekends/evenings and be available as per the Pacific time zone

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