**Job Description: Machine Learning Engineer (AI/ML Focus)**

**Job Summary:** We are seeking a highly motivated and innovative Machine Learning Engineer to join our team. The ideal candidate will have a strong background in AI/ML, computer vision, and NLP with proven experience in deploying large-scale models and contributing to impactful AI projects. You will lead projects focused on developing intelligent solutions, enhancing performance metrics, and ensuring data privacy compliance.

**Key Responsibilities:**

* Design, develop, and deploy AI/ML solutions with a focus on computer vision, NLP, and Generative AI.
* Implement and optimize algorithms for document detection, masking, and secure data processing to ensure regulatory compliance and data privacy.
* Lead and collaborate on the development of AI-driven applications, including interview preparation tools and home query systems.
* Drive end-to-end model development and performance tuning using TensorFlow, scikit-learn, OpenCV, and Langchain.
* Conduct research on innovative activation functions and embedding models, and contribute to the enhancement of existing AI models.
* Collaborate with cross-functional teams to refine AI models for predictive analytics, price prediction, and recommendation systems.
* Mentor and guide junior engineers and interns in implementing advanced AI/ML techniques.
* Present AI solutions at technical workshops and publish research in reputable conferences.

**Qualifications:**

* B.Tech. in Computer Science, AI/ML, or related field.
* Proven experience with AI/ML model development and deployment (e.g., YOLO V8, Generative AI).
* Proficiency in Python, C++, SQL, and relevant AI/ML libraries (TensorFlow, scikit-learn, OpenCV).
* Hands-on experience with NLP, LLMs, and computer vision algorithms.
* Strong problem-solving skills with the ability to innovate and improve model accuracy (e.g., F1 score improvements, R² enhancement).
* Excellent communication skills, with experience in leading teams, mentoring, and conducting workshops.
* Experience in working on projects like AI-driven interview preparation systems, home query applications, and vehicle detection models.
* Strong understanding of data structures, algorithms, and computer science fundamentals.
* Experience in publishing research and working with IEEE or similar organizations is a plus.

**Preferred Skills:**

* Familiarity with frameworks like Huggingface, Pinecone, and Optuna.
* Experience with deployment platforms and version control tools like Git.
* Participation in hackathons and recognition in AI/ML communities (e.g., Microsoft Learn, Hashnode).

**Location:** Remote/Hybrid

**Why Join Us?** You’ll work on cutting-edge AI/ML projects with a focus on practical applications that drive real-world impact. You'll also have the opportunity to lead, learn, and grow in a dynamic and fast-paced environment. If you're passionate about AI and are ready to take your career to the next level, we encourage you to apply!

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