MassRobotics, Inc.

Physical AI Expert

Boston, MA – Consultant / part time

Description

We are looking for an AI visionary to join our dynamic team and become our subject matter expert in Physical AI. This is an opportunity to merge the realms of robotics and machine learning to explore and promote innovative solutions that enhance physical interaction with the world.

The ideal candidate will have a deep understanding of machine learning algorithms, natural language processing, computer vision, and other AI technologies. Your role will involve collaborating with our start-ups and industry partners to identify opportunities for AI integration, conducting research to stay updated with the latest advancements in the field, helping develop standards to encourage adoption of robotics and ensuring the ethical use of AI technologies. You will also be expected to mentor team members and resident start-ups, providing technical guidance to ensure the successful execution of AI projects. The successful candidate will have a strong background in computer science, mathematics, or a related field, and experience with programming languages such as Python, Java or C++. You should be comfortable working independently and have excellent communication skills. If you are passionate about AI and want to make a significant impact in a forward-thinking organization, we would love to hear from you.

This position is a 1-2 day per week part time or consulting role. While this is initially spec'd as a one-year sprint and not a long-term role, this could evolve into a full-time role for this person, or for someone this person finds/hires as the area of work for the organization evolves.

Responsibilities & Duties

- Collaborate with roboticists, data scientists and software engineers to get a deeper understanding of intelligent systems.
- Create metrics to measure physical AI use among our Resident startups.
- Analyze requirements for large datasets for training AI models.
- Develop and maintain documentation for AI models and solutions used by industry and academia.
- Evaluate the performance of AI models and make recommendations for improvements to optimize results.
- Present findings and insights to stakeholders and the broader industry at MassRobotics events and tradeshows around the world
- Work with MassRobotics sponsors and industry leaders in cloud services to provide best in class resources to residents and the community.

- Establishing a working group and create mission and visions statements with a focus on:
  - Educating its members of the latest developments in AI
  - Helping to develop ethical guidelines for AI use in robotics
  - Helping to guide companies to regulatory compliance with industry standards
- Ensure ethical considerations and compliance with relevant regulations in AI projects.
- Develop and publishing case studies to exemplify the types of physical AI being utilized.
- Formalizing collaborations with academic institutions to foster research and development
- Initiate programs among Resident startups involved in physical AI to highlight corporate-startup collaboration and showcase top-tiered startups using physical AI.
- Work with MassRobotics team to host a world class event on Physical AI

Qualifications, Required
- PhD or advanced degree in Computer Science, Mathematics, or related field.
- Solid understanding of machine learning algorithms and techniques.
- Strong background in statistical analysis, data mining and AI/ML frameworks
- Familiarity with Natural Language Processing (NLP) techniques.
- Proven track record of published research in AI and machine learning.
- Proficiency in programming languages such as Python, Java, or C++.
- Experience with cloud platforms such as AWS, Google Cloud, or Azure.
- Excellent communication and presentation skills.
- Ability to work in a collaborative, fast-paced environment.
- Strong analytical and problem-solving skills.
- Strong communication and teamwork skills.
- Ability to stay current with industry trends and advancements.
- High commitment to Integrity, Creativity, Inclusion, Service, and Collaboration

MassRobotics provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws.