

Fields

Company Background: RICOH USA is a renowned provider of industrial printing systems, specializing in manufacturing, packaging, and labeling solutions for various industries. With a commitment to innovation and customer satisfaction, we continuously strive to deliver cutting-edge technologies and exceptional services to our clients globally.

Description of Work: We propose to continue the development of our GenAI system with semantic search capabilities tailored for industrial printing systems documentation. This project aims to further enhance documentation accessibility and searchability, enabling users to efficiently retrieve relevant information, troubleshooting guides, and best practices.

Desired Skill Set for Students:

- Proficiency in machine learning, particularly in natural language processing (NLP) and semantic search techniques with Generative AI and Large Language Models (ChatGPT).
- Experience with TensorFlow or similar deep learning frameworks.
- Competence in web development frameworks such as Flask or Django for building APIs.
- Familiarity with cloud services, particularly Azure Machine Learning or similar platforms.
- Strong problem-solving skills and a keen interest in exploring emerging technologies.

Preferred Team Size: We seek a project team comprising 3 to 5 students. This team size fosters collaboration, facilitates brainstorming sessions, and enables efficient task delegation to achieve project objectives within the stipulated timeframe.

Potential for Internship: Outstanding students who demonstrate exceptional performance may be offered internship opportunities at the conclusion of the course, contingent upon mutual agreement and availability of positions within our organization.

Location: While the work can be conducted remotely to accommodate students' preferences, occasional virtual meetings or on-site visits may be necessary for project updates and discussions.

Non-Disclosure Agreement (NDA): To safeguard confidential information and intellectual property, students will be required to sign a non-disclosure agreement (NDA) prior to commencement of the project.

Intellectual Property Rights: We will request students to assign intellectual property rights to our organization for any artifacts generated during the project. This ensures that we retain ownership of the work and can leverage it for future initiatives and developments.

We believe that this project presents an exciting opportunity for students to apply their expertise in machine learning and GenAI to address real-world challenges in the industrial printing sector. We are eager to collaborate with motivated and talented individuals to drive innovation and deliver enhanced value to our customers.

Thank you for considering our proposal. We look forward to partnering with enthusiastic students to advance the GenAI system and contribute to the evolution of semantic search technologies in the industrial printing domain.