Advanced Robotic Control and Intelligence

THEKER is a cutting-edge robotics and AI startup revolutionizing the industrial automation space. We operate in a **super fast-paced environment**, constantly tackling complex challenges and pushing the boundaries of robotics innovation. Our mission is to build intelligent, efficient, and adaptable robotic systems that make a real impact in the world.

About the Project

This project develops advanced robotic control with in-context learning, enabling adaptive real-time decision-making. The focus is on integrating cutting-edge sensor technology with AI-driven motion planning and dynamic path optimization. The methodology includes reinforcement learning approaches to fine-tune robot actions in unpredictable environments, probabilistic models for uncertainty estimation, and multimodal sensor fusion combining vision, force feedback, and tactile sensing. By leveraging transformer-based models for sequence prediction and motor control refinement, the system aims to boost robotic agility, precision, and responsiveness. The project may also incorporate human-in-the-loop strategies to refine control policies and improve interaction between robots and operators in collaborative settings. This research has potential applications in industrial automation, medical robotics, and high-precision assembly tasks.

What We Offer

- The chance to be part of an **exciting, fast-growing robotics and AI startup**.

- A **super fast-paced environment** where your contributions will have a real impact from day one.

- A collaborative, supportive team made up of passionate innovators.

- The opportunity to work on **cutting-edge robotics projects** and solve real-world challenges.

- **Professional growth** opportunities and the chance to shape your career in a cutting-edge industry.

- A **positive, inclusive, and dynamic company culture** where new ideas are encouraged and valued.

- 100% on-site work in Barcelona

Final Observation

At **THEKER,** we are committed to **equality, diversity, and inclusion** in hiring. We believe that everyone should have the opportunity to contribute to building a better future, and we strive to create a workplace where **everyone feels welcome, respected, and valued**.

Join us in shaping the future of robotics at **THEKER**! 🚀

Ready to take on the challenge? **Apply now!**

#BuildingTheRobotsOfTheFuture