

Research & Development

Experienced

Lead Software Engineer

Noida, India

Samvardhana Motherson Reflected (SMR), a company of the Motherson Group, is one of the world's leading manufacturers of vehicle exterior mirrors, interior mirrors, intelligent camera-based driver assistance systems (CMS) for Commercial Vehicle & Passenger vehicle as well as other products and systems for the automotive industry. The Motherson Group is one of the world's 21 largest automotive suppliers and employs more than 190,000 people worldwide.

This requirement is under DVS (Digital vision system) Team. DVS Product development encompasses Functional Safety (ISO 26262), Cybersecurity (ISO 21434), and ASPICE domain knowledge. We are looking someone to support us develop pre-development department AI-based vision systems in automotive industry for prototypes and collaborate with serial suppliers for recognition software.

What you'll do

- Development of concepts and architectures for computer vision systems based on artificial intelligence or classical approaches within a given software architecture
- Design and implementation of AI-software (object detection, classification, segmentation, tracking, ...) considering operational development guidelines
- Software development in programming languages like Python (experienced) and C/C++ (basic level)
- Collaborate with the team to integrate AI solutions into embedded platforms, ensuring efficient deployment and execution
- Process and analyse datasets for the optimization and validation of AI models
- Create validation environment
- Manage and maintain labelling environment
- Advising project management on task planning and assessing technical risks (technical risk analysis)
- Monitoring and evaluation of technologies, concepts and tools for algorithms
- Identification and interacting with potential serial software suppliers
- Verification of externally supplied software packages
- Testing modules and the overall software
- Creating the necessary documentation

What we are looking for

- Proficiency in Python programming
- Familiar with C/C++ and Linux
- A foundational understanding of machine learning and AI principles
- Solid grounding in mathematics and linear algebra
- Very good English language skills (German language skill welcome but not mandatory)
- 2-3 years of experience in algorithm development
- Experience with video processing systems or ADAS

What we offer

- A competitive salary and range of benefits.
- Be part of a worldwide team with very big challenges ahead, which brings huge development opportunities for people with big career goals.
- If you enjoy working in a fast-paced environment, then look no further.
- We are an equal opportunity employer where inclusion matters; this is evidenced by us being a Disability confident Committed Employer.



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