AI Embedded Engineer

Job Description

We’re looking for smart colleagues for our Research & Development team in Brno! Join Innovatrics experts in AI, machine learning and computer vision, whose algorithms power biometric solutions in 80 countries. The team members are doing R&D related to some of the most accurate and advanced facial, fingerprint or iris recognition algorithms on the planet.

If you are a lifelong learner, you enjoy constant challenges and like staying on the cutting edge of the current developments in our field of expertise, let us know! Your ideas will be applied to some of the most advanced biometric solutions used by the largest companies as well as governments.

Summary

We are looking for an AI Embedded Developer to join our R&D team in Brno. Do you have excellent programming skills and are interested in working in the frontline of artificial intelligence combined with Biometrics? Then this position might be something for you.

Responsibilities:

- Deployment of Neural Networks to target embedded platform
- Porting native C++ libraries for various embedded platforms from low-end CPUs like ARM
- Cortex-M4 to FPGAs and high-end devices with GPU (Nvidia Jetson)
- Optimisation of NNs (compression, pruning, floating precision, ...)
- Conversion of NNs to a specific inference engine
- Machine Learning workflows automatisation
• Experimenting with various performance optimizations to overcome limitations of edge and embedded platforms (e.g. CPU cache and overall memory utilization)
• PoC-ing of related solutions

Candidate requirements

• Advanced knowledge of C++ language
• Experience with Neural Networks, Machine Learning and Edge Computing
• Basic experience with programming in Python
• Experience with HW acceleration (CUDA, Vulkan, CVFlow, NPU) is a plus
• Knowledge of Git, Conan, Docker, CI, CD, Jenkins/Gitlab CI is a plus
• Experience with cross-compilation for embedded platforms
• Problem analysis and debugging skills
• Good command of the English language
• Willingness to learn new technologies
• Team player with a friendly attitude.

Contact:

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