Senior C++ Programmer - Machine Learning

Montreal - Full-time - 744000151049982

Apply Now:
https://jobs.smartrecruiters.com/Ubisoft2/744000151049982-senior-c-programmer-machine-learning?oga=true

We are looking for a Senior C++ Programmer to play a key role in building cutting-edge applications powered by Machine Learning. The role of the senior C++ Programmer with experience in AI/ML is to bring best practices and robust design principles, helping us deliver on an ambitious and innovative roadmap.

What you'll do

Main responsibilities:

- Provide and support ML systems based on business requirements and objectives.
- Develop, integrate, and maintain inference engines, ML libraries, and frameworks.
- Leverage the best hardware (NPU, GPU, CPU) to accelerate ML-related computations.
- Build systems to evaluate, optimize, and measure model performance.
- Integrate and maintain ML systems within game engines and games.
- Write unit tests and integration tests.
- Collaborate with the data science team, specialized programmers (gameplay, AI, etc.), the research team, and other stakeholders such as production teams.
- Write clear and structured code that meets performance, maintainability, modularity, scalability, and compatibility requirements.

Other responsibilities:

- Create proof-of-concepts, which may involve model training, fine-tuning, and experimenting with different techniques and architectures.
- Suggest improvements when needed by designing and implementing new systems or enhancing existing ones.
- Conduct research to stay up to date with the latest advancements.
- Prepare documentation, presentations, and knowledge-sharing materials to communicate complex AI concepts to both technical and non-technical collaborators.

What you bring

Education:

- Bachelor’s degree in computer science or computer engineering or equivalent.
- A master’s degree in Machine Learning or any other relevant field is a strong asset.

Relevant Experience:

- Minimum 10 years of experience in C++ programming.
- Minimum 5 years of experience in AI/ML.

Core Skills:

- In-depth knowledge of C++ required.
- Strong architecture skills.
- Good understanding of hardware to leverage multithreading and optimize memory management.
- Solid knowledge of machine learning and deep learning fundamentals.

Other Skills:

- Proficiency in Python is an asset.

- Experience working with game engines is an asset.