Letter of Intent and Previous Work

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I am looking into an implementation of semantic simulation mechanism described in the earlier paragraph using reinforcement learning:

Here are my preliminary notes on the semantic simulation process:

https://github.com/dimitarpg13/aiconcepts/blob/master/docs/OnTheNeedofDynamicSimulationWhenModelingInteractionsOfSemanticStructures.pdf
https://github.com/dimitarpg13/aiconcepts/blob/master/docs/ModelingAttractiveRepulsiveForcesInSemanticProperties.pdf
https://github.com/dimitarpg13/aiconcepts/blob/master/docs/ReinforcementMechanismInSemanticStructureModels.pdf
https://github.com/dimitarpg13/aiconcepts/blob/master/docs/SemanticTemplates.pdf
https://github.com/dimitarpg13/aiconcepts/blob/master/docs/PracticalExamplesUsingSemanticSimulationWithRL.pdf

Additionally to NLP, LLMs, and related algorithms my interests include mathematical modeling via convex and combinatorial optimization, graph theory and dynamic programming algorithms. Interested in using probabilistic methods for creating suitable estimators.
Here are few repos which I created related to these topics and representing my studies on these topics:

https://github.com/dimitarpg13/reinforcement_learning_and_game_theory
https://github.com/dimitarpg13/graphs_and_dynamic_programming
https://github.com/dimitarpg13/probabilistic_machine_learning
https://github.com/dimitarpg13/learning_bayesian_networks/blob/main/docs/LearningBayesianNetworks_part1.pdf
https://github.com/dimitarpg13/transformers_intro/blob/main/docs/TransformersIntro.pdf

My coding experience involve python, C++, C, Java.
Here are samples of my C++ code from past endeavors:
https://github.com/google/or-tools/compare/stable...dimitarpg13:or-tools:dpg/PWL_solver_stable_py2.7_gtest_scipV6

https://github.com/dimitarpg13/testcode/blob/master/fraction.cpp
https://github.com/dimitarpg13/testcode/blob/master/fraction_mt.cpp
https://github.com/dimitarpg13/testcode/blob/master/fraction_bigint.cpp

https://github.com/dimitarpg13/cpp_testcode/tree/master/SudokuQlik/src

And here are relevant documents to software design, architecture, coding techniques and design patterns:
https://github.com/dimitarpg13/BigIndex/blob/main/PresentationDGueorguiev2018.pdf
https://github.com/dimitarpg13/InsideTensorflow2Source/blob/master/Understanding%20Tensorflow%202%20source%20code.pdf

https://github.com/dimitarpg13/UnderstandingPandasAndNumpySourceCode
https://github.com/dimitarpg13/inside_cpp_object_model

And here are few repos about C++ language details and features:
https://github.com/dimitarpg13/cpp_effective_modern
https://github.com/dimitarpg13/cpp_move_semantics
https://github.com/dimitarpg13/cpp_templates_complete_guide
https://github.com/dimitarpg13/cpp_random_pieces