**CONCLUSION**

In this paper, we presented a machine learning (ML)-based system architecture to identify evidence about teamwork skills from the behavior, group dynamics, and interactions in the CLE. We developed a three-stage robust architecture for dataintensive computing and efficient assessment of teamwork CPS skills.In our future work, we will attempt to build text-based Natural Language Processing (NLP) / Machine Learning (ML) models to identify or classify various performances of CPS subskills from the chat logs, audio/video interactions data

collected throughout the study. Additional feature extraction that may be used during this phase will be implemented for CNN based pattern identification. The knowledge gained in developing this baseline model will represent significant

guidance for proceeding phases and potential studies to follow.