DATE: January 29th, 2021

TO: Phillip Anzalone, Chair College Council Curriculum Committee

FROM: Curriculum Subcommittee

Lukasz Sztaberek (Chair), Jeremy Seto, and Zheng Zhu

RE: Final Report for Proposal CST 3529 Applied Methods in Machine Learning

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**Proposal:**

The proposal contains addition of a new course *CST 3529 Applied Methods in Machine Learning*. The course is designed to be an elective in the BTech program in the Computer Systems Technology Department. This course will require two pre-requisites: CST 1201 Programming Fundamentals, and MAT 2440 Discrete Structures and Algorithms I.

**Rationale:**

Machine learning is a very important aspect of modern sciences and engineering. Because it makes handling extremely large datasets possible, it helps in identifying patterns and predicting the outcomes. At the moment no course that covers machine learning is being offered at the bachelor-level from the Computer Systems Technology Department. Department of Physics offers course PHYS3600, however that course focuses mainly on topics related to physics and astronomy. Proposed course will cover a wider variety of topics, including business, health, and sports.

**Strengths:**

Solid proposal; the creation of this new course will help students to understand current and future possibilities behind machine learning and which will benefit them in wide variety of careers where knowledge of Artificial Intelligence is required.

**Weaknesses:**

None

**Issues and Concerns Discussed and Resolved:**

1. Identifying whether there any similar courses within CUNY.
2. Emphasizing that the course is available as an elective for the CST BTech students.
3. Strengthening of the rationale for the need of new course.
4. Including a better explanation on what are the technology expectations from students registering in the course and what are the learning outcomes.
5. Including letters of support for the new course in the proposal.
6. Correcting minor issues with formatting throughout the proposal.

Concerns and suggestions were well received by the proposers and incorporated into the final version of this proposal.

**Subcommittee Activities:** The subcommittee members met together on December 1st 2020 and sent their comments and suggestions to the proposer. After receiving response to these comments, subcommittee met with proposer on January 6th 2021. On January 21st 2021, subcommittee and proposer met with Provost Pamela Brown, Dean Gerarda Shields, and Kimberly Cardascia. Further modifications were suggested and were also incorporated in the final version of the proposal.