# STP598MLDL_final

November 2, 2024

# 1 STP598 Machine Learning & Deep Learning

## 1.1 Final Project Proposal

### 1.1.1 Due 11:59pm Tuesday Nov. 12, 2024 on Canvas

## 1.2 Final Project Report

### 1.2.1 Due 11:59pm Tuesday Dec. 10, 2024 on Canvas

### 1.2.2 name, id

## 1.3 Final Project

The final project consist three parts:

- A proposal consisting of team formation and description of the problem(s), dataset and proposed methodology at most 2 pages long due **11:59pm Tuesday 11/12/2024**.
- A in-class presentation by the team in the week of 12/02.
- A final written report due **11:59pm Tuesday 12/10/2024**.

### 1.3.1 Proposal (5 pts)

Form a team first (See below). Determine a topic of interest that can be finished by the end of this semeter. Choose a dataset of appropriate size to analyze. You can find datasets at UCI machine learning data repository. Define a problem (or problems) you want to solve, e.g. regression, classification, prediction, or unsupervised learning problem.

Submit a two-page proposal to canvas by the team leader.

### 1.3.2 Presentation (10 pts)

Each team will be given a few minutes (TBD) to present the findings about their project. Please submit your slides before the presentation. The order and time will be announced on canvas.

The presentation will be evaluated based on:

- Clarity: introduce the background, explain the motivation, challenge, and present the results and findings.
- Fluency: oral presentation.
- Pace: transition between speakers, no rush.
- Time-Control: no overtime.
- Technology (bonus): graphs, videos, demos, anything cool.

#### 1.3.3 Report (15 pts)

Finish the project you planned in the project proposal. You are supposed to submit a final project report of data analysis using the techniques you learned from this class.

Try to use the techniques you learned from the class. But do not be limited to them. Feel free to adopt machine learning/deep learning methods and make comparison.

For the report, you need to write a report of your data analysis which should includes:

- Data description;
- Problem(s) you plan to solve;
- Methodology;
- Scientific findings of your data analysis.

The report should be at least 3 pages. Submit it to canvas in pdf.

### 1.4 Teamwork

There are **2~3** members allowed for each team. Please continue working with your team member for the project proposal. Only team leader needs to submit final report to canvas.

For submission:

- Submit only an `pdf` file.
- The pdf should clearly contain the **names** and **ASU ID** for each of your team member.

A template of final project report can be found here.

### 1.5 Grading

Members will collaborate to earn good scores to be shared by all members (i.e. members will get the same score) unless there were complaint(s) about unequal contribution. In that case, I will investigate and determine the individual scores.