**ADS-599 Capstone Project Proposal**

Fill out this form and submit it by the end of Module 1 in Canvas.

**Student Information:**

Team Leader/Representative: **Gabriella Rivera**

Full Names of Team Members:

1. **Gabriella Rivera**

2. **John Vincent Deniega**

**Capstone Project Information:**

Title of your Capstone Project: **Artificial Intelligence-Assisted Flow Cytometry Imaging**

Name of Your Selected Dataset: **Comprehensive Phenotyping of Human Dendritic Cells and Monocytes**

Description of Your Selected Dataset (data source, number of variables, size of dataset, etc.): **FlowRepository dataset comprises of 29 Flow Cytometry Standard files. Each file contains about 20000 entries with 32 variables each. Total dataset is about 1.5 gigabytes, though 25 files are 2.4 megabytes in size.**

Provide your team GitHub link here: **https://github.com/vanguardfox/ADS599**

How many times have your team member(s) met during Module 1? **2**

What was the agreed upon method of communication? Are you using any teamwork project management software? **We are using Slack and Zoom to communicate. We are currently using GitHub to manage the project.**

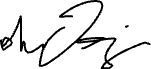
Attach a typed proposal (two-page minimum) in your own words for the work you intend to complete towards the following components to satisfy the requirements for your capstone project.

* Purpose / The Problem
* Background
* Your Motivation
* Your Working Hypothesis
* Data Science Objectives
* Planned Methodology
* Real-World Impact and Planned Deliverables
* Additional Comments / Roadblocks

*I assert that this proposal is the result of my own work, and all applicable sources have been properly cited and acknowledged. I understand that my capstone project will be reviewed by the Program Director as part of the approval process and successful completion of this project requires approval from the Program Director and/or Course Instructor. In addition, I understand that I am strongly encouraged to submit my finished project for publication.*

**Student Signature Date**

26 October 2024



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**Student Signature Date**

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**Student Signature (if applicable) Date**

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