# **DS5500 Data Science Capstone**

# Automated Grading of Handwritten Assignments in Mathematics

### **Weekly Report for week commencing 25 February 2024**

Project Description:

The primary goal of this project is to leverage the latest advancements in HMER and MLP to develop a comprehensive solution for the automatic grading of handwritten math assignments at the school level. By combining these technologies, this project aims to address the challenges associated with grading handwritten math assignments and enhance the efficiency and effectiveness of math education.

|  |
| --- |
| Tasks accomplished last week |
| Trained detector model on-device |
| Improved accuracy of symbol recognition to 71% |
| Implemented basic graph encoder model using the recognized symbols |

|  |
| --- |
| Tasks to be accomplished next week |
| Develop remaining parts of the encoder-decoder model |
| Train and test the complete model on cloud |

Issues or changes:

No issues or changes to the project plan as of this week.