One of CSE-454's main goals is to prepare you to apply data mining algorithms to real-world tasks, or to leave you well-qualified to start machine learning or AI research. The final project is intended to start you in these directions.

The final project would be a group project, consisting of at most 2 members per group. You should form a group as soon as possible, do some research on it. Here I have provided a list of tentative project ideas below. However, you can come with your own ideas. Note that, you have to submit your project in the last week of the academic calendar. Please submit your group information and project name with a short description in the google form. No two groups are allowed to choose the same project.

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| **Ser** | **Project idea** | **Remarks** |
| 1 | Bangla handwritten digits recognition. |  |
| 2 | Real-time face mask detection. |  |
| 3 | Real-time emotion recognition and suggesting songs. |  |
| 4 | Real-time sign language recognition. |  |
| 5 | Automated tree species recognition. |  |
| 6 | Fake news detection in context of Bangladesh. |  |
| 7 | Military car recognition. |  |
| 8 | Vehicle license number plate recognition. |  |
| 9 | Real-time military/civilian detection. |  |
| 10 | Object detection from image/image segmentation. |  |
| 11 | Real-time gender and age detection. |  |
| 12 | Bangla chat-bot. |  |
| 13 | Detecting online abuse from social media comments. |  |
| 14 | Traffic sign recognition. |  |
| 15 | Class of flower prediction |  |
| 16 | Speech emotion recognition |  |
| 17 | Image caption generator |  |
| 18 | English to Bangla translator. |  |
| 19 | Sentiment analysis for depression based on social media post. |  |
| 20 | Food classification. |  |
| 21 | Leaf disease detection. |  |
| 22 | Lung cancer detection. |  |
| 23 | Breast cancer classification/detection. |  |
| 24 | Trump bot: copy-cat bot mimicking [@realdonaldtrump](https://twitter.com/realdonaldtrump) |  |
| 25 | Music genre recognition. |  |

\* Detail instructions will be circulated later on.