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| **Progress Report – ShelterMe** |  |
| Date: 17/01/2024 |

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**Group Members:**

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| **Group Member** | **Team Role** |
| Baldeep Arora | Group Leader |
| Arshia Pelathur Gururaj | Data Analysis Team, Database Team |
| Aman Singh | Data Analysis Team, Backend Team |
| Sweatha Palani | Technical Team, Data Analysis Team, |
| Rajesh Jayaraman | Technical Team, Documentation Team |
| Rithwik Prem | Backend Team |
| Syed Muhammad Hassaan Chishti | Data Analysis Team, Modelling Team, |
| Mathew Manoj Velookizhakethil | Technical Team, Database Team, Deployment & Ops Team |
| Obitha Thomas | Frontend Team, Database Team |
| Sneha Mariam Thomas | Documentation Team, Database Team |
| Jini Zacharias | Database Team |
| Abhishek Pandey | Frontend Team, Backend Team |
| Govind Ram Gupta Belde | Frontend Team |
| Joel Raju Padath | Frontend Team, Database Team, Deployment & Ops Team |

\*everyone – Modelling team

**Executive Summary**

In Week 1, the group members discussed selecting a project for the current semester’s Step Presentation. Assorted topics were listed down from all domains (Health, Social Analytics/Reviews/Metrics, Financial, Environment, and Tools). Later, the topics were filtered based on the banned list, solvability and originality. After filtering out the topics, the team voted on the topics and the most voted one was selected, which was then called ShelterMe.

**Topics Discussed Initially**

The topics that were initially discussed were:

1. **Jobs**

* Finding jobs
* AI based networking
* Scrape LinkedIn and based on current CV suggest people to network with within college
* AI based CV review + guidance tool
* Identify fake job postings (scam or actual companies trying to generate hype)
* Salary based on company analysis

1. **Transportation**

* Transportation arrival of buses vs leave home time?
* not wanting to sit next to people. when will someone get off the bus based on gestures
* Traffic flow prediction we have a live feed of cameras for that
* traffic flow on snowy days
* Car prediction that can reduce the pollution based on your personal route use usual traffic flow
* least pollution causing route based on traffic
* AI based car maintenance
* tyre replacement prediction so we can predict before failure
* for all traffic stuff look at what Rithwik sent (waze reports + camera feeds)
* community based ride sharing app

1. **Health**

* timely allocation of health cards or insurance
* I am worried about the water I drink
* clothes suggestions based on temperature
* food intake suggestion to improve health or pre-existing conditions
* predict what RNA sequence is needed to trigger antibody protein production by our body to tackle a certain illness
* Identifying physical genetic queues based on images (look into kinship verification)

1. **Style suggestion**

* what should I wear based on what you have + temperature or whatever put AI into it + occasion
* noise
* based on noise figure out apartment mates schedule
* find a community
* match people based on likes and dislikes instead of actual backgrounds a multicultural community inside the college
* Because only Pakistani no community at all so rely on likes and dislikes instead

**Management**

* reduce cooking time based on ingredients
* AI based budgeting
* looking for a place to live
* Communication Indian English to Canadian English
* Look for Scholarships by scraping institute websites
* Dealing with crackheads
* Safety problems on TTC incident prediction based on human behavior

**Filtered Topics**

After an initial discussion and brainstorming of the topics, we listed all of them down. We then began filtering them out based on the banned topics, originality and solvability. These were the list of projects that were filtered down to:

1. StyLCT:  
   User Experience:  
   You take a picture of every clothing item you want to wear. It tells you if the outfit you put together works or not. It identifies which bit of the outfit needs to be changed

Technical:   
 Camera static images as input, Object detection, classification, color classification   
 Style classification

Data:  
 Object detection static data, Object classification static data, Color classification static data, Style classification dynamic data scraping might need to set rules

1. Kinship relation identification - <https://local-jade-1ec.notion.site/Health-domain-brainstorming-3684f26809a043c1b596e07f26777c3e>
2. ShelterMe - <https://open.toronto.ca/dataset/daily-shelter-overnight-service-occupancy-capacity/>

**Project Selected**

ShelterMe - <https://open.toronto.ca/dataset/daily-shelter-overnight-service-occupancy-capacity/>

**Further Discussions**

The project was identified, and a management structure was established on GitHub. The documentation for the project was also created and maintained on GitHub. It was decided that roles would be switched after each presentation to ensure a diverse set of perspectives and inputs. The management structure was then implemented on GitHub, providing a robust platform for collaboration and version control. Additionally, a Git session was planned to familiarize the team with the functionalities and best practices of using GitHub.

**GIT Organization Link**

-> [ShelterMe (github.com)](https://github.com/Step-Presentation-Sem-2)