Capstone Project Weekly Progress Report

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| Semester | Fall-2024 Semester 3rd |
| Course Code | AML-3406 |
| Section | Section 1 |
| Project Title | Car Damage Detection |
| Group Name | Group B |
| Student names/Student IDs | Sakshi (C0908000) – TL  Bansil Patel (C0912873)  Harsh Mohile (C0912872)  Meet Patel (C0910378)  Rachit Bhatt (C0902810) |
| Reporting Week | Week 1 |
| Faculty Supervisor | William Pourmajidi |

# **Grade the level of collaboration from different aspects between team members:**

(use: good, medium, below expectation)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sakshi | Bansil Patel | Harsh Mohile | Meet Patel | Rachit Bhatt |
| Good | Good | Good | Good | Good |

# **Tasks outlined in the previous Weekly Progress Report for this reporting week at the individual level and group level**

* 1. Individual tasks (each team member)

Sakshi: Documentation and formatting of weekly reports and the proposal.

Bansil Patel: Explore various project topics and finalize the best one.

Harsh Mohile: Research libraries and packages.

Meet Patel: Research on dataset related to the topic.

Rachit Bhatt: Research on deployment standards.

2.2 Your team’s tasks

* Made significant efforts to lay the foundation of our capstone project on car damage detection.
* Began by forming our team and conducting thorough research on cutting-edge machine-learning projects across different sectors, such as banking, education, and retail.
* Reviewed numerous advanced topics during our class discussions and consulted with our professor to refine our project focus.
* Although working on various machine learning projects over the past two semesters, we tried to beat a fresh challenge this time.
* Finalized to propose and pursue car damage detection.
* Explored several algorithms, including CNN and YOLO, to determine their potential effectiveness for our project.
* We also identified suitable datasets and shared our findings through GitHub and a Slack group to ensure efficient collaboration and information sharing.

# **Progress made in Reporting Week at an individual level and group level**

* 1. Individual progress

Sakshi: Made weekly progress report for week 1.

Bansil Patel: Researched multiple project domains and defined their challenges and scope.

Harsh Mohile: Gathered information about various Python modules.

Meet Patel: Explored datasets on all topics.

Rachit Bhatt: Analyzed deployment standards on all topics and finishing weekly report.

* 1. Your team’s progress
* Explored various project domains.
* Assessed project challenges and scopes to pinpoint the most viable options.
* Compiled information on various Python modules and their potential applications.
* Selected relevant datasets related to current trends and reviewed deployment standards for different topics to ensure a smooth implementation process as we advance.

# **The areas/tasks you could not make progress and/or complete as scheduled or the difficulties encountered in this reporting week at individual level and group level.**

As this was our first week, there were not much challenges encountered when searching or identifying the problem and reporting the progress.

* 1. Individual project blockers

Sakshi: N/A

Bansil Patel: Identifying the best project to work on.

Harsh Mohile: N/A

Meet Patel: N/A

Rachit Bhatt: N/A

* 1. Your team’s project blockers
* Identifying the most current and relevant project topics was particularly challenging, as it involved extensive research and evaluation.
* Finding appropriate algorithms, datasets, and deployment standards required careful consideration to ensure they met our project needs.

# **Tasks to be completed in next week at individual level and group level**

* 1. Individual tasks

Sakshi: Document the proposal with proper formatting and make project icon.

Bansil Patel: Research project domain and define resource allocation.

Harsh Mohile: Study on ML-Ops.

Meet Patel: Select the dataset.

Rachit Bhatt: Configure GitHub.

* 1. Your team’s tasks
* Thoroughly studying and documenting our project proposal.
* Focusing on identifying and strategizing ways to tackle potential challenges.
* Designing an effective approach for training and testing our model to maximize accuracy, including examining best practices, fine-tuning our methods, and preparing for the subsequent phases.

# **Include the tasks from your sprint planning (Github/Zenhub) for the present period.**

A screenshot of a computer

Description automatically generated

**Figure 1:** Status Chart of GitHub Issues in Milestone

# **Include charts/graphs (e.g., burn down charts) from your project management tool (Github/Zenhub) that shows your progress for the period of this report.**

A graph on a screen

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**Figure 2:** Highest Contributor of the Week

# **Include a note and address to your project Github with list of codes uploaded/updated on Github in this reporting week.**

In the first week, our team focused on selecting a suitable topic. Then we searched for various algorithms, libraries, and packages required accordingly. Hence, there were no coding practices involved in this week.

[GitHub](https://www.github.com/rachit-bhatt/Capstone-Project): <https://www.github.com/rachit-bhatt/Capstone-Project>