A close up of a logo

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**ARTIFICIAL INTELLIGENCE, DESIGN AND IMPLEMENTATION**

**1003-CAPSTONE TERM 1**

**WEEK 1-3 -- REPORT**

**PROFESSOR – NOOPA JAGADEESH**

**BY:**

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**Instructor Meeting:**

* **Date:** January 10, 2025
* **Location:** Durham College
* **Meeting Notes:**
  1. Connected with peers and formed a group for the capstone project.
  2. Selected the domain and topic for the project.

**Team Meetings:**

* **Date(s):** January 10, 2025
* **Location:** Durham College
* **Attendees:** All team members attended.
* **Absentees:** None.
* **Catch-up Actions:** N/A.
* **Meeting Notes:**
  1. Successfully formed the project group and updated the Excel sheet with the finalized domain and project name.
  2. Discussed key aspects of the chosen domain and aligned on the next steps.

**Task Assignments:**

* Each team member took equal responsibility in finalizing the domain and project topic.

**Key accomplishments:**

* Successfully finalized the project topic after thorough discussions and analysis.

**Team Contributions Overview:**

* Contributed to selecting the domain.
* Provided suggestions and analysed feasibility.
* Researched potential project ideas.
* Coordinated with the team to ensure alignment.

**Challenges Faced:**

* Initial challenges in domain selection due to differing opinions among team members.

**Roadblocks:**

* None

**Project Management Dashboard Link:** https://capstoneprojectai.atlassian.net/jira/software/projects/CAP/boards/1

**Weekly summary:**

* The team successfully finalized the project topic after overcoming initial challenges related to domain selection.
* Progress is now underway as we await the professor's approval.

**Week 2 Summary**

**Instructor Meeting:**

* **Date:** January 17, 2025
* **Location:** Durham College
* **Meeting Notes:**
  1. Couldn’t meet with the professor for getting the approval.
  2. Without getting approval we undertook the tasks of the projects for weekly progress.

**Team Meetings:**

* **Date(s):** January 17, 2025
* **Location:** Durham College
* **Attendees:** All team members attended.
* **Absentees:** None.
* **Catch-up Actions:** N/A
* **Meeting Notes:**
  1. Since approval for the project is delayed, a discussion was held among the team members on possibilities of implementation.
  2. Delegated research tasks on dataset selection and feasibility testing.
  3. Brainstormed on high level architectural diagram.

**Task Assignments:**

* Team members were assigned specific tasks:
  + Team members were asked to research on possible machine learning models and previous similar projects done.
  + Investigate user interface design best practices.
  + Explore datasets related to construction projects and cost estimation.

**Key Accomplishments:**

* Several datasets from Kaggle website are collected.
* Brainstorming on the potential datasets and machine learning models required for training the datasets.

**Team Contributions Overview:**

* Provided input on dataset selection, still final decision is not taken.
* Provided ideas for using cloud resources like Digital Ocean platform for hosting.

**Challenges Faced:**

* Since the project was not approved by the professor yet, we did milestones checkup on the common tasks like exploring on the hosting, cloud platforms available and similar projects done earlier.

**Roadblocks:**

* Limited availability of construction-specific datasets.
* The cloud resources for hosting the application are costly.

**Project Management Dashboard Link:** https://capstoneprojectai.atlassian.net/jira/software/projects/CAP/boards/1

**Weekly Summary:**

* As a team, dataset collection is completed but still a final dataset for training is not selected. Based on the available dataset and affordable cloud resources, decided to do research on algorithms available (can’t do without an approval).

**Week 3 Summary**

**Team Meetings:**

* **Date(s):** January 24, 2025
* **Location:** Durham College
* **Attendees:** All team members attended.
* **Absentees:** None.
* **Catch-up Actions:** N/A
* **Meeting Notes:**
  1. Assigned tasks like high-level architectural diagram, literature review, problem definition and technical statement for members.
  2. Eagerly looking for an approval from professor on Friday, 24th 2025.
  3. Drafted an initial project timeline with milestones.

**Task Assignments:**

* Literature review was assigned to Lakshmi.
* High-level architectural diagram was assigned to Viththakan.
* Business Statement was assigned to Arjun.
* Technical Statement was assigned to Anitha and Josmy.

**Key Accomplishments:**

* Literature review is drafted and shared among team for review.
* Currently working on High-0level architectural diagram (based on approval).