***BDO India LLP***

***Monthly Report***

**Week 1 (3 Jun – 7 Jun)**

1. Joined the technical team and was introduced to colleagues.

2. Assigned the ReactNative-based Waste Management Game implementation.

3. Tasked with understanding project requirements and reviewing existing code flow.

4. Noted significant differences in code requirements from the original project.

5. Set up the backend server using Node.js and Express.js, establishing MongoDB database connectivity.

6. Created dummy APIs and a schema for database operations.

7. Enhanced existing schema to meet industry standards and uploaded necessary data to MongoDB.

**Week 2 (10 Jun – 14 Jun)**

1. Completed backend API setup including Login, Registration, Score Update, Leaderboard, GetHospitals, and GetRoles.

2. Utilized Postman for thorough backend API testing.

3. Started frontend development using React.js.

4. Developed the landing page with login and registration functionalities.

5. Updated game UI, introducing new designs, leaderboards, and level-up modals.

6. Ensured seamless integration between backend and frontend.

7. Initiated Python learning, focusing on coding and basic machine learning practice.

**Week 3 (17 Jun – 21 Jun)**

1. Received positive feedback on project evaluation from Praveen sir.

2. Integrated Figma designs to meet user requirements.

3. Updated login, registration, level-up, leaderboard, and game UI components as per Figma specifications.

4. Started learning regression and other machine learning techniques.

5. Explored Python libraries such as pandas, scikit-learn, and numpy using sample datasets.

6. Continued studying various machine learning algorithms and models.

**Week 4 (24 Jun – 29 Jun)**

1. Received updates on the Waste Management Game project.

2. Implemented drag and drop functionality, which presented challenges.

3. Conducted thorough research to implement drag and drop without disrupting the UI.

4. Successfully integrated drag and drop functionality into the game.

5. Completed all user requirements promptly.

6. Assigned a machine learning mini-project on email spam detection.

7. Spent the weekend understanding and preparing for the mini-project.

**Week 5 (1 Jul – 5 Jul)**

1. Studied and implemented the email spam detection mini-project.

2. Created a pipeline to evaluate accuracy across various models using the provided dataset.

3. Implemented vectorization of input data and applied machine learning models to each word in input texts individually.

4. The objective was to create a model capable of identifying data from input texts effectively.