**Initial Project Planning Template**

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| Date | 9 JULY 2024 |
| Team ID | 740030 |
| Project Name | Leveraging Machine Learning For GDP Per Capita Prediction |
| Maximum Marks | 4 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Use the below template to create a product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Define  problem/  problem  understanding | USN- 9891501 | The goal is to leverage historical data to accurately forecast GDP per capita trends, enabling policymakers and economists to make informed decisions for sustainable development and economic growth. | 2 | medium | ujwala | 20/06/2024 | 20/06/2024 |
| Sprint-2 | Data Collection and Preparation | USN-9891509 | Collect supplementary data: demographic, economic, social, environmental factors.  Clean and preprocess data to handle missing values, outliers, and inconsistencies. | 3 | High | Ujwala  preethi | 21/06/2024 | 24/06/2024 |
| Sprint-3 | Exploratory Data Analysis | USN-989151 | Identify correlations and relationships between GDP per capita and predictor variables | 2 | medium | Owez sharief | 25/06/2024 | 27/06/2024 |
| Sprint-4 | Model Building | USN-9891521 | Evaluate different machine learning algorithms suitable for GDP per capita prediction (e.g., linear regression, decision trees, random forest, gradient boosting). | 4 | high | Owez sharief | 28/06/2024 | 2/06/2024 |
| Sprint-5 | Performance Testing | USN- 9891525 | Compare and select the best-performing model based on predefined evaluation metrics. | 2 | medium | ujwala | 29/06/2024 | 30/06/2024 |
| Sprint-6 | Deployment | USN- 9891526 | Implement monitoring mechanisms to track model performance and drift over time. | 5 | High | preethi | 01/07/2024 | 07/07/2024 |
| Sprint-7 | Documentation | USN- 9891532 | Document the entire process, including data sources, methodologies, and results. | 3 | medium | saikrishna | 08/07/2024 | 10/07/2024 |