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**Joint Tech Internship Community Program**

**Guidance Document for Assignment 2**

**Deadline for Submission:** 30th Sep 2024

**For queries:** [internship@genaicm.com](mailto:internship@genaicm.com)

**Dear Students,**

Welcome to Assignment 2 of the Joint Tech Internship Community! This assignment is a hands-on component of your internship, where you'll tackle a Machine Learning problem using Python.

**Assignment Details:**

A Machine Learning problem statement is provided in a separate document, along with historical data in an Excel file. These will serve as your starting point.

**Step 1: Project Planning Phase**

* Collaborate with your teammates to brainstorm and outline the tasks necessary to complete the assignment.
* Assign timelines to each task and track progress diligently.
* You may document these tasks in an Excel file or a simple note.

**Step 2: Design Phase**

* Develop a design document (2-3 pages) outlining key decisions, such as:
  + Training/Test data split (e.g., 80%-20%)
  + Acceptable error rates in prediction
  + Machine Learning algorithms used
  + Outlier removal
  + Dimensionality reduction decisions
  + Model versioning
* Enhance your document with diagrams to make it more visually appealing.
* Share these diagrams on LinkedIn to demonstrate your work and build credibility.

**Step 3: Coding Phase**

* It is recommended to develop your solution in Python. There are numerous resources available online for reference.
* Ensure your code is well-commented and follows best practices.
* Optionally, you can create a simple UI in Python to showcase a user interface for testing your application.
* Prepare a document demonstrating that you've written and passed tests for your code.
* Share a screenshot or video demo of your application on LinkedIn to further enhance your profile.

**Step 4: Submission**

* Once all phases are complete, create a GitHub repository and commit all related documents, including design, test, code, and test/training data.
* Submit your team members' details, along with the GitHub link to your project, via this [Google Form](https://forms.gle/Xic9dWNrkyWL5TF5A).

**Important Note:**

* When filling out the form, include the full names of all team members.
* The form accepts up to 3 team members; additional names can be entered in the notes section (if they have completed Assignment 1).

Note, the deadline is set to 30th Sep 2024. If you need extension, feel free to write to [internship@genaicm.com](mailto:internship@genaicm.com)