**📋TASK STATUS PROGRESS UPDATE**

**Task 1: Mental Health Sentiment Dataset Acquisition** ✅ **(Completed).**

* ☑ Government-accredited open-source healthcare dataset website.
* ☑ Column header of dataset Statement & Status
* ☑ Columns: 2 & Rows: 52,663.

**Task 2: Mental Health Sentiment Data Cleaning & Preprocessing** ✅ **(Completed).**

**Objective:** Ensure the dataset is clean and ready for EDA.  
**Key Actions:**

* ☑ Remove duplicates.
* ☑ Remove Empty Cells & Stop word.
* ☑ Handle missing values.
* ☑ Text Tokenization.
* ☑ Data Balancing.
* ☑ Data Encoding.

**Task 3: Data Transformation & Encoding** ✅ **(Completed).**

* ☑ Encoded categorical variables.
* ☑ Ensured dataset consistency.

**Task 4: Loading Cleaned & Processed Version of Mental Health Sentiment Dataset** ✅ **(Completed).**

* ☑ Final dataset saved in Excel Format.
* ☑ Ready for EDA and modeling.

**Task 5: Exploratory Data Analysis** ⏳**(In Progress).**

**Objective:** Implementation of EDA before data modeling.  
**Key Actions:**

* ☑ Checking & removing any duplicate values and empty cells.
* ☑ Addition of a new column from an existing column in the data set.
* ☐ Converting Categorical values into Numerical values.
* ☐ Basic Visualization using matplotlib & seaborn python library.
* ☐ Resetting dataset index using Python to save output in Excel & CSV format.
* ☐ Modeling.

**Task 6: Data Modeling ❌ (Pending…)**  
**Objective:** Choosing the best-fit algorithm or model for the dataset.

**Key Actions:**

* ☐ **Evaluate different algorithms** (**📉** Logistic Regression, ⚖ Support Machine Vector (SVM), **🌲** Decision Tree & **🌲🌲🌲** Random Forest) — in testing phase.
* ☐ **Select and justify the best model** based on dataset characteristics.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Metric** | **📉 Logistic Regression** | ⚖ **Support Machine Vector (SMV)** | **🌲 Decision Tree** | **🌲🌲🌲 Random Forest** |
| **Accuracy** | 00.00% | 00.00% | 00.00% | 00.00% |
| **Precision** | 00.00% | 00.00% | 00.00% | 00.00% |
| **Recall** | 00.00% | 00.00% | 00.00% | 00.00% |
| **F1-Score** | 00.00% | 00.00% | 00.00% | 00.00% |

* ☐ Model Training.
* ☐ **Data Engineering** & **Model Implementation** after selecting the best-fit model.
* ☐ Model Deployment Using Streamlit.

**Task 7: Data Visualization & Communication ❌ (Pending…)**

* ☑ Power BI Visualization Report.
* ☑ PDF Visualization Report.
* ☐ Image Visualization Report.

**Task 8: Project Review ❌ (Pending…)**

**Task 9: Project Upload to GitHub ❌ (Pending…)**

**Task 10: Project Task Report Submission ❌ (Pending…)**

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**🔗 GitHub:** ⏳ ***Processing…***