📋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.

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%

- ☐ 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.

- ☐ 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…*