

TASK STATUS PROGRESS UPDATE

Task 1: Heart Disease Dataset Acquisition (Completed).

- ☒ Government accredited open-source healthcare dataset website.

Task 2: Heart Disease Dataset Cleaning & Preprocessing (Completed).

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

Key Actions:

- ☒ Remove duplicates.
- ☒ Handle missing values.
- ☒ Standardize formats.

Task 3: Data Transformation (Completed).

Task 4: Loading Cleaned & Processed Version of Heart Disease Dataset (Completed).

Task 5: Exploratory Data Analysis (Completed).

Objective: Implementation of EDA before data modeling.

Key Actions:









- ☒ Renaming column header, getting summary information of the dataset.
- ☒ Checking & removing any duplicate values and empty cells.
- ☒ Addition of new column from existing column in the data set.
- ☒ Basic Visualization using matplotlib & seaborn python library.
- ☒ Resetting dataset index using python to save output in Excel & CSV format.
- ☒ Modeling.

Task 6: Data Modeling (Completed).

Objective: Choosing the best fit algorithms or model to be used on the dataset.

Key Actions:

- ☒ **Evaluate different algorithms** ( Logistic Regression,  Support Machine Vector (SVM),  Decision Tree &  Random Forest) — in testing phase

Metric	 Logistic Regression	 Support Machine Vector (SMV)	 Decision Tree	 Random Forest
Accuracy	 85.87%	84.24%	80.98%	84.24%
Precision	 85.85%	85.44%	83.17%	84.76%
Recall	 89.22%	86.27%	82.35%	87.25%
F1-Score	 87.50%	85.85%	82.76%	85.99%

- ☒ Select and justify the best model based on dataset characteristics.
- ☒ Model Training.
- ☒ Data Engineering & Model Implementation after selecting the best fit model.

Task 7: Data Visualization & Communication  (Completed).


- ☒ Power BI Visualization Report.
- ☒ PDF Visualization Report.
- ☒ Image Visualization Report.

Task 8: Project Review  (Completed).

Task 9: Project Upload to GitHub  (Completed).

Task 10: Project Task Report Submission  (Completed ).

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 GitHub: Completed 