

TASK STATUS PROGRESS UPDATE

Task 1: Cervical Cancer Dataset Acquisition (Completed).

- ☒ Government-accredited open-source healthcare dataset website.
- ☒ Column header of dataset **Demographics:** (Age, Number of Sexual Partners, First Sexual Intercourse, Num of Pregnancies), **Lifestyle & Risk Factors:** (Smokes, Smokes (years), Smokes (packs/year), Hormonal Contraceptives, Hormonal Contraceptives (years), IUD, IUD (years)), **Sexually Transmitted Disease (STDs):** (STDs, STDs (number), STDs: Condylomatosis, STDs: Vaginal Condylomatosis, STDs: Vulvo-Perineal Condylomatosis, STDs: Syphilis, STDs: Pelvic Inflammatory Disease, STDs: Genital Herpes, STDs: Molluscum Contagiosum, STDs: HIV, STDs: Hepatitis B, STDs: HPV, STDs: Number of Diagnosis, STDs: Time Since First Diagnosis, STDs: Time Since Last Diagnosis) and **Target:** Diagnosis/Outcome (Dx: Cancer, Dx: HPV, Dx: Hanselmann, Schiller, Cytology, Biopsy).
- ☒ Columns: 33 & Rows: 61.

Task 2: Cervical Cancer Data Cleaning & Preprocessing (Completed).

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

Key Actions:

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





Task 3: Data Transformation (Completed).

- ☒ Encoded categorical variables.
- ☒ Normalized/Standardized numerical features.
- ☒ Ensured dataset consistency.

Task 4: Loading Cleaned & Processed Version of Cervical Cancer Dataset (Completed).

- ☒ Final dataset saved in Excel & CSV format.
- ☒ Ready for EDA and modeling.

Task 5: Exploratory Data Analysis (In Progress).

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%

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 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.
- ☐ 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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