Citation Report

Libraries/Frameworks Used:

1. **Pandas**
   - Description: Used for data manipulation and analysis.

Citation:

Reback, J., et al. (2020). pandas-dev/pandas: Pandas (Version 1.1.3). Zenodo.
http://doi.org/10.5281/zenodo.3509134

2. **Scikit-learn**
   - Description: A machine learning library used for preprocessing, model training, and evaluation.
   - Modules:
     - IterativeImputer
     - train_test_split
     - LabelEncoder, StandardScaler
     - accuracy_score, precision_score, recall_score, f1_score, roc_auc_score, confusion_matrix, log_loss, balanced_accuracy_score
     - Models: LogisticRegression, RandomForestClassifier, SVC, MLPClassifier, DecisionTreeClassifier

Citation:

Pedregosa, F., et al. (2011). Scikit-learn: Machine Learning in Python. Journal of Machine Learning Research, 12, 2825–2830.

3. **CatBoost**
   - Description: Gradient boosting on decision trees used for classification tasks.

Citation:

Prokhorenkova, L., et al. (2018). CatBoost: unbiased boosting with categorical features. arXiv preprint arXiv:1706.09516.

4. **XGBoost**
   - Description: Used for gradient boosting classification.

Citation:

Chen, T., & Guestrin, C. (2016). XGBoost: A scalable tree boosting system. In Proceedings of the 22nd acm sigkdd international conference on knowledge discovery and data mining (pp. 785-794).

5. **Joblib**
   ○ Description: Used for saving and loading models.

Citation:

Joblib developers. (2020). Joblib: running Python functions as pipeline jobs. https://joblib.readthedocs.io

6. **Matplotlib**
   ○ Description: Library used for creating visualisations.

Citation:

Hunter, J. D. (2007). Matplotlib: A 2D graphics environment. Computing in Science & Engineering, 9(3), 90-95.

7. **Seaborn**
   ○ Description: Statistical data visualisation built on top of Matplotlib.

Citation:

Waskom, M. (2021). seaborn: statistical data visualisation. Journal of Open Source Software, 6(60), 3021.

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