| Internship Daily Report | |
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| Name of Student: Parag Jayant Patil<br>Company: Technokraft Training & Solutions Pvt. ltd.<br>Course: Data Science<br>Internship Supervisor: Arbaaz Raza Khan | |
| Date | Description |
| 15-12-2023 | Introduction to Data Science, AI, ML. What is Data Engineering, Data analysis and Data Science. Role of Data Engineer, Data Analyst and Data Scientist. Different Data Science and ML platforrms and communities like Kaggle and Analytics Vidhya. Introduction to datsets. Future and scope of AI & DS. |
| 16-12-2013 | Descriptive Statistics: Measures of central tendency - mean, median, mode- To understand the typical value, central point, and most frequent observation in a dataset, crucial for data analysis in data science. |
| 17-12-2023 | Sunday (Holiday) |
| 18-12-2023 | Descriptive Statistics: Measures of central tendancy- mean, median, mode. |
| 19-12-2023 | Descriptive Statistics: Measures like variance, standard deviation, range- To understand the spread and variability of data, essential for understanding data distributions in data science. |
| 20-12-2023 | Descriptive Statistics: Measures of dispersion- variance, standard deviation, range. |
| 21-12-2023 | What are variables, classification of variables, statistical analysis. |
| 22-12-2023 | Classification of variables: Numeric variables, Categorical variables, Ordinal variables. |
| 23-12-2023 | Classification of variables: Numeric variables, Categorical variables, Ordinal variables. |
| 24-12-2023 | Sunday (Holiday) |
| 25-12-2023 | Classification of variables: Independent variables and Dependent variables. |

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| 26-12-2023 | Understanding Numeric Independent and Dependent variables, Categorical Independent and Dependent variables, Ordinal Independent and Dependent variables. |
| 27-12-2023 | Exploratory Data Analysis (EDA), understanding data, concept of target variable, fundamental concepts of EDA, feature selection, hypothesis generation. |
| 28-12-2023 | EDA: Univariate Analysis. |
| 29-12-2023 | EDA: Bivariate Analysis. |
| 30-12-2023 | Understanding variables in EDA. |
| <span style="color:red">31-12-2023</span> | <span style="color:red">Sunday (Holiday)</span> |
| 01-01-2024 | Python libraries used in Data Science: Pandas |
| 02-01-2024 | Python libraries used in Data Science: NumPy |
| 03-01-2024 | Python libraries used in Data Science: Matplotlib |
| 04-01-2024 | Python libraries used in Data Science: Seaborn |
| 05-01-2024 | Python libraries used in Data Science: Scikit-learn |
| 06-01-2024 | Data collection and integration: Gathering raw data from different sources(eg. files, databases, networks, etc.) and combining that data collected from different sources into a unified view. |
| <span style="color:red">07-01-2024</span> | <span style="color:red">Sunday (Holiday)</span> |
| 08-01-2024 | Data cleaning and preprocessing: Identifying and handling missing/NULL values, errors, inconsistencies, inaccuracies. |
| 09-01-2024 | Data cleaning and preprocessing: Dealing with outliers and handling Skewed Data. |
| 10-01-2024 | Data cleaning and preprocessing:  Data transformation- converting or modifying raw data to make it more suitable for analysis or modeling purposes. |

| Date | Task |
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| 11-01-2024 | Feature Engineering: To extract meaningful information and improve the performance of machine learning models by selecting, creating, or transforming input features. |
| 12-01-2024 | Data formatting: Ensuring that data is in the correct format for analysis. |
| 13-01-2024 | Data reduction and validation: Removal of irrelevant features and ensuring the processed data meets the requirements and assumptions of analysis. |
| 14-01-2024 | Sunday (Holiday) |
| 15-01-2024 | Machine learning algorithms:  Regression algorithm. |
| 16-01-2024 | Machine learning algorithms:  Linear regression. |
| 17-01-2024 | Machine learning algorithms:  Logistic regression. |
| 18-01-2024 | Machine learning algorithms:  Decision Trees algorithm. |
| 19-01-2024 | Machine learning algorithms:  Random Forest algorithm. |
| 20-01-2024 | Confusion Matrix: True Positive (TP),True Negative (TN), False Positive (FP), False Negative (FN), Accuracy, Precision, Recall, F1-score. |
| 21-01-2024 | Sunday (Holiday) |
| 22-01-2024 | Project building |
| 23-01-2024 | Project building |
| 24-01-2024 | Project building |
| 25-01-2024 | Project building |
| 26-01-2024 | Project building |
| 27-01-2024 | Project submission |
| 28-01-2024 | Sunday (Project evalution from Internship supervisor) |
| 29-01-2024 | Project feedback from supervisor and Imternship completion |