



A data driven approach to forecasting youtube video views

Milestone 1: Project Initialization and Planning Phase

The "Project Initialization and Planning Phase" marks the project's outset, defining goals, scope, and predictions. This crucial phase establishes project parameters, identifies key team members, allocates resources, and outlines a realistic timeline. It also involves risk assessment and mitigation planning. Successful initiation sets the foundation for a well-organized and efficiently executed machine learning project, ensuring clarity, alignment, and proactive measures for potential challenges.

Activity 1: Define Problem Statement

Problem Statement 1: A healthcare provider wants to identify individuals at risk of developing FYVV. They can use machine learning models to analyze patient data, including age, gender, medical history, and lifestyle factors, to identify individuals with a high risk of developing FYVV.

Problem Statement 2: A hospital wants to detect FYVV in its early stages to provide timely treatment. They can use machine learning models to analyze patient data, such as blood pressure, blood glucose levels, and urine tests, to identify early signs of FYVV and initiate treatment promptly.

Problem Statement 3: A healthcare provider wants to personalize treatment for patients with FYVV based on their individual risk factors. They can use machine learning models to analyze patient data and predict the progression of FYVV, helping them tailor treatment plans to each patient's needs.

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CKD Project Statement Report: Click Here

Activity 2: Project Proposal (Proposed Solution)

The proposed project, "a data driven approach to forecasting youtube video views" aims to leverage machine learning for more accurate FYVV predictions. Using a comprehensive dataset including age, rbc, hemoglobin, anemia and diabetics, the project seeks to develop a predictive model optimizing FYVV prediction.

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CKD Project Proposal Report: Click Here

Activity 3: Initial Project Planning

Initial Project Planning involves outlining key objectives, defining scope, and identifying early prediction of FYVV. It encompasses setting timelines, allocating resources, and determining the overall project strategy. During this phase, the team establishes a clear understanding of the dataset, formulates goals for analysis, and plans the workflow for data processing. Effective initial planning lays the foundation for a systematic and well-executed project, ensuring successful outcomes.

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CKD Project Planning Report: Click Here

Milestone 2: Data Collection and Preprocessing Phase

The Data Collection and Preprocessing Phase involves executing a plan to gather relevant loan application data from Google drive, ensuring data quality through verification and addressing missing values. Preprocessing tasks include cleaning, encoding, and organizing the dataset for subsequent exploratory analysis and machine learning model development.

Activity 1: Data Collection Plan, Raw Data Sources Identified, Data Quality Report

The dataset for "A data driven approach to forecasting youtube video views " is sourced from Google drive. It includes patient details. Data quality is ensured through thorough verification, addressing missing values, and maintaining adherence to ethical guidelines, establishing a reliable foundation for predictive modeling.

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CKD Data Collection Report: Click Here

Activity 2: Data Quality Report

The dataset for "A data driven approach to forecasting youtube video views" is sourced from Google drive. It includes patient details. Data quality is ensured through thorough verification, addressing missing values, and maintaining adherence to ethical guidelines, establishing a reliable foundation for predictive modeling.





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CKD Data Quality Report: Click Here

Activity 3: Data Exploration and Preprocessing

Data Exploration involves analyzing the A data driven approach to forecasting youtube video views dataset to understand patterns, distributions, and outliers. Preprocessing includes handling missing values, scaling, and encoding categorical variables. These crucial steps enhance data quality, ensuring the reliability and effectiveness of subsequent analyses in the prediction of FYVV.

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CKD Data Exploration and Preprocessing Report: Click Here

Milestone 3: Model Development Phase

The Model Development Phase entails crafting a predictive model for loan approval. It encompasses strategic feature selection, evaluating and selecting models (Random Forest, Decision Tree, KNN, XGB), initiating training with code, and rigorously validating and assessing model performance for informed decision-making in the lending process.

Activity 1: Feature Selection Report

The Feature Selection Report outlines the rationale behind choosing specific features (e.g., Age, RBC, Diabetics) for the FYVV model. It evaluates relevance, importance, and impact on predictive accuracy, ensuring the inclusion of key factors influencing the model's ability to predict FYVV.

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CKD Feature Selection Report: Click Here

Activity 2: Model Selection Report

The Model Selection Report details the rationale behind choosing Random Forest and Logistic Regression models for FYVV prediction. It considers each model's strengths in handling complex relationships, interpretability, adaptability, and overall predictive performance, ensuring an informed choice aligned with project objectives.

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CKD Model Selection Report: Click Here





Activity 3: Initial Model Training Code, Model Validation and Evaluation Report

The Initial Model Training Code employs selected algorithms on the A data driven approach to forecasting youtube video views dataset, setting the foundation for predictive modeling. The subsequent Model Validation and Evaluation Report rigorously assesses model performance, employing metrics like accuracy and precision to ensure reliability and effectiveness in predicting FYVV outcomes.

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CKD Model Development Phase Template: Click Here

Milestone 4: Model Optimization and Tuning Phase

The Model Optimization and Tuning Phase involves refining machine learning models for peak performance. It includes optimized model code, fine-tuning hyperparameters, comparing performance metrics, and justifying the final model selection for enhanced predictive accuracy and efficiency.

Activity 1: Hyperparameter Tuning Documentation

The Random Forest model was selected for its superior performance, exhibiting high accuracy during hyperparameter tuning. Its ability to handle complex relationships, minimize overfitting, and optimize predictive accuracy aligns with project objectives, justifying its selection as the final model.

Activity 2: Performance Metrics Comparison Report

The Performance Metrics Comparison Report contrasts the baseline and optimized metrics for various models, specifically highlighting the enhanced performance of the random Forest model. This assessment provides a clear understanding of the refined predictive capabilities achieved through hyperparameter tuning.

Activity 3: Final Model Selection Justification

The Final Model Selection Justification articulates the rationale for choosing Random Forest as the ultimate model. Its exceptional accuracy, ability to handle complexity.

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CKD Model Optimization and Tuning Phase Report: Click Hereck Here





Milestone 5: Project Files Submission and Documentation

For project file submission in Github, Kindly click the link and refer to the flow. Click Here

For the documentation, Kindly refer to the link. Click Hereck Here

Milestone 6: Project Demonstration

In the upcoming module called Project Demonstration, individuals will be required to record a video by sharing their screens. They will need to explain their project and demonstrate its execution during the presentation.