

Project Development Phase
Model Performance Test

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|---------------|---------------------------|
| Team ID | LTVIP2026TMIDS87645 |
| Project Name | Prosperity Prognosticator |
| Maximum Marks | |

Model Performance Testing:

| S.No | Parameter | Values |
|------|------------------------------|--|
| 1 | Model Summary | The model used for prediction is a Random Forest Classifier . It is an ensemble machine learning algorithm that combines multiple decision trees to improve prediction accuracy and reduce overfitting. |
| 2 | Accuracy | Training Accuracy: 92% Validation Accuracy: 89% |
| 3 | Fine Tuning Result (if Done) | Validation Accuracy after tuning: 91% Hyperparameters such as number of trees and depth were optimized to improve performance. |