

## Model Development Phase

Date	06 July 2024
Team ID	739915
Project Title	BlueBerry Yield Prediction
Maximum Marks	5 Marks

### Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected(yes/No)	Reasoning
Row#	Unique identity of a row	No	Not relevant for prediction.
clonesize	Size of the blueberry clone	Yes	Directly influences the yield and health of the blueberry
honeybee	Presence of honeybees	Yes	Pollination by honeybees affects the fruit set and yield.
bumbles	Presence of bumbles	Yes	Pollination by bumbles affects the fruit set and yield.
andrena	Presence of andrena	Yes	Pollination by andrena affects the fruit set and yield.
osmia	Presence of osmia	Yes	Pollination by osmia affects the fruit set and yield.

MaxOfUpperTRange	Maximum of the upper temperature range	Yes	Temperature ranges are critical for blueberry growth.
MinOfUpperTRange	Minimum of the upper temperature range	Yes	Temperature ranges are critical for blueberry growth.
AverageOfUpperTRange	Average of the upper temperature range	Yes	Temperature ranges are critical for blueberry growth.
MaxOfLowerTRange	Maximum of the lower temperature range	Yes	Temperature ranges are critical for blueberry growth.
MinOfLowerTRange	Minimum of the lower temperature range	Yes	Temperature ranges are critical for blueberry growth.
AverageOfLowerTRange	Average of the lower temperature range	Yes	Temperature ranges are critical for blueberry growth.
RainingDays	Number of days with rainfall	Yes	Rainfall affects plant hydration and growth.
AverageRainingDays	Average number of days with rainfall	Yes	Rainfall affects plant hydration and growth.
fruitset	Percentage of flowers that develop into fruits	Yes	Direct measure of reproductive success, influencing yield.
fruitmass	Mass of the fruit	Yes	Heavier fruits contribute to higher yield.
seeds	Number of seeds per fruit	Yes	Seed count can affect the fruit quality and yield.
yield	Total yield of blueberries	Yes	The target variable for predictive

			modelling, essential for determining prediction accuracy.
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