CRESTA FEATURES PLANNED AHEAD

Sr. No.	Base Minimum Value Product Use Case. (MVP)	Use Case No	Use cases	ML Algorithms	Will be implemented in Cresta version
1		BoA 1	Predict early in the lifecycle. This is the base use case. (1) Future Metric data should be displayed in a table.(2)Future Metric data should be displayed on mouse hoover.	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 1.0
2		BoA 1A	IROA 1 lise case dron down	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 1.0
3		BoA 1B	Deferral Rate metric will be a part of BoA 1 use case. (2) Frequency of	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 1.0
	(1) Select a project. (2) Select	BoA 1C	and the predicted data we need to display actual data line graph for the	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 1.0
	Metric for prediction. (3) Select Trend. Result : (1) Defect Metric is predicted for Future (2) Statistical UCL and LCL are selected (3) Predictions are given for various algorithms.	BoA 1D	Predicted Functional Defects vs. Actual Functional Defects.	Support Vector Machines, Naive Bayes, Logistic Regression, Decision Tree, Random Forest	Cresta 1.0
4		HQ 1	Low Data Use Case: Prediction of a new project metrics using co-relation data of similar projects.	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 2.0
5		HQ 2	Low Data Use case: Prediction of metrics with daily data streaming.	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 2.0
6	Graphic Representation of Accuracy and more than one future releases.	NTT1	Prediction Graphs to include the Accuracy graph.		Cresta 2.0
		NTT2	Predictions to be made over a finite set of releases (or X axis parameters)		Cresta 2.0
7	Formal ETL scripts to be published.	NTT3	ETL scripts and related system settings to be in formal API forms. These API's should be exposed and relevant documentation should be published.		Cresta 2.0
8	Configuration and Setup Pages	NTT4	Setup Pages and Config weightages.		Cresta 2.0
9	Numeric Statistics with ETL back-end	NTT5	Generate basic statistical dashboard for a graphic Matrix.		Cresta 2.0

Optimization

Sr. No.	Base Minimum Value Product Use Case. (MVP)	Use Case No	Use cases	ML Algorithms	Will be implemented in Cresta version
	(1) Select a project. (2) Select the module under consideration. Result: (1)		Identify testing overlaps: The classification of test cases done in base use case will identify overlaps. (1) These overlaps should be presented. (2) UI should aid correction of overlapping test cases.	Support Vector Machines, Naive Bayes, Logistic Regression, Decision Tree, Random Forest, K- Nearest Neighbours, K-Means, Dimensionality Reduction	Cresta 1.0
	Classify Test cases and segregate the Test cases according to various categories.	BoA 2A	Look to reduce testing efforts across duplicating teams. (1) The user should be able to select multiple teams and the test cases that they are using. (2) Based on the base use case we should be able to locate same (or similar) test cases being executed multiple times by various teams.	Support Vector Machines, Naive Bayes, Logistic Regression, Decision Tree, Random Forest, K- Nearest Neighbours, K-Means, Dimensionality Reduction	Cresta 1.0

Coverage

Sr. No.	Base Minimum Value Product Use Case. (MVP)	Use Case No	Use cases	ML Algorithms	Will be implemented in Cresta version
	From Historical and predicted data find out which module is defective. Define a configuration page to define UCL and LCL of defective modules.	BoA 3	detective module. (2) Based on Test Cases Data identity which modules have adequate test case coverage. Requirements coverage to be	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 1.0
		BoA 3A	regression of all). (1) Identify allocated resources. (2) From historical data	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 2.0
3		вод ЗВ	applications from defect leakage data and requirements document. (2) Identify if test cases have adequate coverage for this data (3) Identify if	Linear Regression, Support Vector Regression, Bayesian Regression	Cresta 2.0

Compliance

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Sr. No.	Base Minimum Value Product Use Case. (MVP)	Use Case No	Use cases	ML Algorithms	Will be implemented in Cresta version
1	Compliance Testing for Testing				
	results.				Under discussion.

Adaptive Planning

Sr. No.	Use Case. (MVP)	Use Case No	Use cases	ML Algorithms	Remarks	Will be implemen ted in Cresta version
1	r roject Quality and r rogram	BoA 4	Adjust test planning based on above analysis.	Not Applicable	Details not clear from BoA.	Cresta 2.0
2	Efficiency will be considered for this use case. Projects whose quality is critical will be identified. Programs which are critical will also be identified. The intersection set of these two items will be displayed in a	BoA 4A	Centralized reporting to disseminate the above analysis to leadership team.	Not Applicable	Reports details not clear. Conflicts with existing ERP, CRM and SAP reports.	Cresta 2.0