Big data analysis

Project Design Phase-I
Proposed Solution

Date 28September2023

ProjectName	BIGDATA ANALYSIS

Proposed SolutionTemplate:

Projectteamshallfillthefollowinginformationinproposedsolutiontemplate.

S.No.	Parameter	Description
1.	ProblemStatement(Problemto besolved)	Tohelppredictthewhether conditionsofclimatetrends and socialmediatrendsofsocial patterns.Toanalysisand visualize the resultsof predictive valuesofbigdata analysis.

	2.	Idea/Solutiondescription	ToCreateanInteractive Dashboard,responsivedesign foridentifyingbuisness intlelligents,analyzingclimate trendsandunderstanding whetherconditions.
	3.	Novelty/Uniqueness	Analysisofbigdatafromsocial trends,whetherconditions and explorethedataset,predictive valuesandvisualizingthe resultsforbusinessintalligence.

| 4. | SocialImpact /CustomerSatisfaction | Bigdataanalyhelpsthesocial trends tounderstand customers' preferencesand othermaintenanceissues.

Forinstance,analysisofsocial trends helpsthebusiness intalligencethecustomers with socialpatternswhileoptimizing thedatasetusingpredictive analysistechniques.Asaresult, bygatheringmeaningfuldata, datasetcanfetchmoresocial trendsinthegiventimeframe. |
| --- | --- | --- |

	5.	BusinessModel(Revenue Model)	Data-infusedbusiness modelsareallowing companiestostay aheadofthe competitionandcreate servicesthatoffermore valuetocustomers.By usingartificial intelligenceanddata analyticstools, organizationscan predictcustomerneeds, identifymarkettrends, andcreateinnovative strategiesforsuccess.

	6.	ScalabilityoftheSolution	Investinginscalabledata solutionsisessentialfor organizationsdealingwith largevolumesofdata.They provideacost-effectiveand efficientwaytostore,proce ss, andanalyzedata,enabling organizationstomake data- drivendecisions,reduce costs,becompetitive,and enhancethecustomer experience.

Project Design Phase-I

Solution Architecture

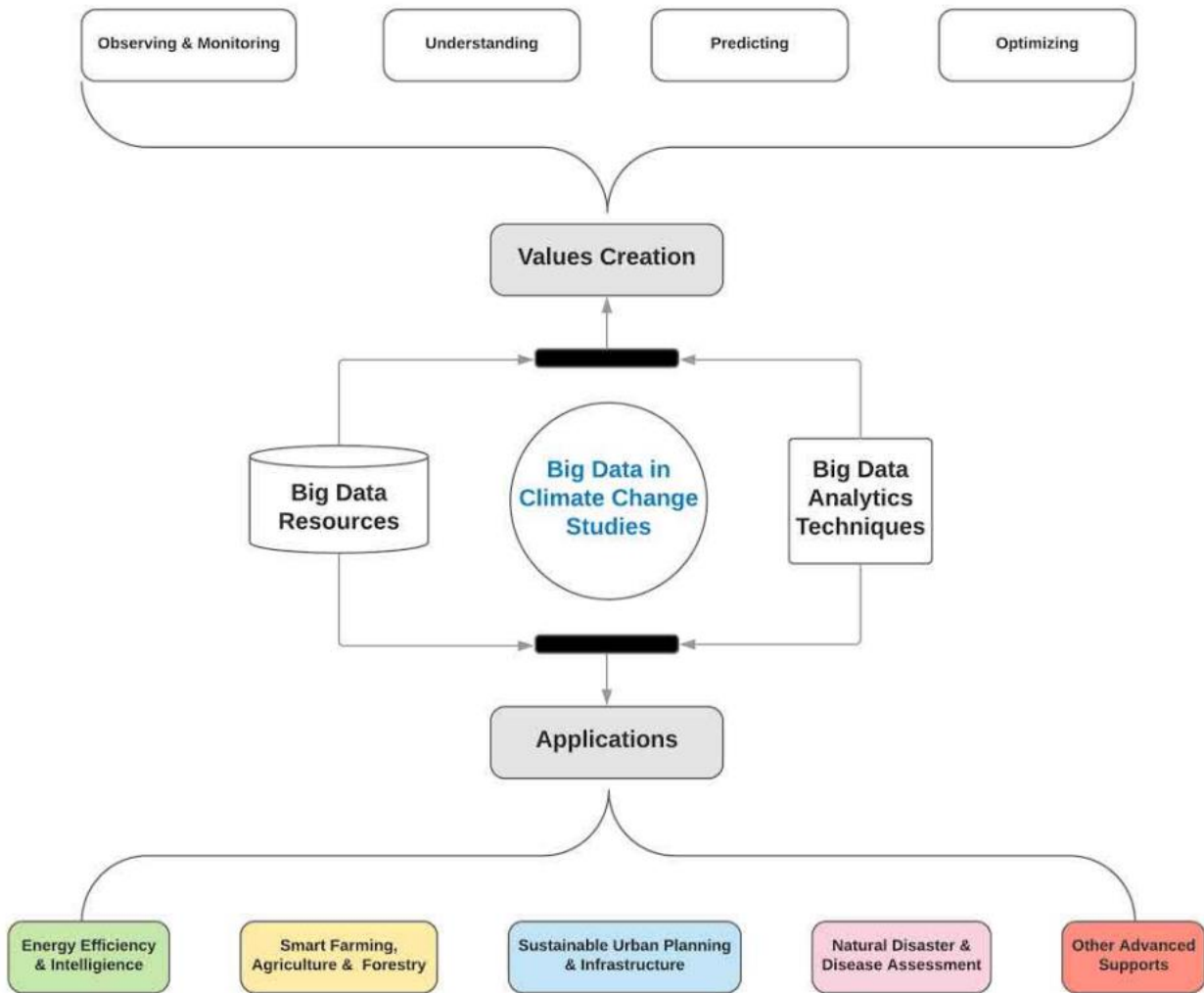| Date	28sep 2023
Team ID	

Project Name	Bigdata analysis:climatetrends and social patterns
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridgesthe gap between business problems and technology solutions. Its goals areto:

•Findthebesttech solutiontosolveexistingbusiness problems.

•Describethestructure,characteristics,behavior,andother aspectsofthesoftwaretoproject stakeholders.

•Definefeatures, developmentphases,andsolution requirements.

•Providespecificationsaccording towhichthesolutionisdefined,managed,anddelivered.

Example- Solution Architecture Diagram:

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┌──────────────────────┐   ┌──────────────────┐   ┌──────────────┐   ┌────────────┐
│ Observing & Monitoring│   │  Understanding   │   │  Predicting  │   │ Optimizing │
└──────────────────────┘   └──────────────────┘   └──────────────┘   └────────────┘
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Values Creation

Big Data Resources

Big Data in Climate Change Studies

Big Data Analytics Techniques

Applications

| Energy Efficiency & Intelligience | Smart Farming, Agriculture & Forestry | Sustainable Urban Planning & Infrastructure | Natural Disaster & Disease Assessment | Other Advanced Supports |

Ideation Phase

Empathize & Discover

Date	26sep 2023
Team ID	
Project Name	Big data analysis: climate trends
Maximum Marks	4 Marks

Empathy Map Canvas:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes.

It is a useful tool to helps teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

Example

Empathy Map