ProjectDesignPhase-I

ProposedSolutionTemplate

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| Date | 24September2022 |
| TeamID | PNT2022TMID48053 |
| ProjectName | Project–NutritionAnalyzerforfitness Enthusiastics |
| MaximumMarks | 2Marks |

ProposedSolutionTemplate:

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| S.No. | Parameter | Description |
| 1. | ProblemStatement  (Problemtobesolved) | 1)Peoplewithobesityandothermajorhealth problemwhohavetowhattherefoodintake.  2)Anutritiontrackershouldbeableto calculatetheamountofnutritioninfood  3)Usedforpeoplewhocannotafford personalnutritionistanddietician.  4)Shouldactivelysupportandmonitorthe personalizedsupplyofnutrient.  5)Itshouldhelpdietaryanalysisofenergy andnutritionintake.  6)Shouldprovidewithrightoptioninorderto maintainahealthydiet.  7)Itshouldalsousedbypeoplewhohave diabetesandbloodpressureetc.. |
| 2. | Idea/Solutiondescription | 1)TheAI-basedfoodimagerecognition algorithmsandtheproposedreal-timefood recognitionsystememployingedge computingserviceparadigm.  2)Webuildamodeloftheobjectthat identifiedthefruitandgivesrequireddata thatincreasemetabolismwithnutrition analyzer.  3)Buildwebapplicationbyusingframework thatconsumercanaccessinstantinformation onnutrition.  4)Itisaessentialsupportingsystemfor healthandtrainingneedsandturnsoutabest analyzerforfitnesskeenperson |

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| 3. | Novelty/Uniqueness | 1)Timeconsuming.  2)Webelievethatmorebedevotedtofurther improvingthespeed.  3)Lesscomplexthanothersystem.  4)Itcanboosttheclassificationaccuracy substantially. |
| 4. | SocialImpact/Customer Satisfaction | 1)Itoutperformstheresultsfromallexisting approachesintermsofrecognitionaccuracy  2)Itdevelopsareal-timesystemwhose responsetimeisclosetotheminimalof existingtechniques  3)Itsavestheenergybykeeptheenergy consumptionequivalenttotheminimumof theexistingapproaches  4)Usercanensurethatthefoodhasoptimal requirementofvitaminsandminaralsandit createstrustingusers. |
| 5. | BusinessModel(Revenue Model) |  |
| 6. | ScalabilityoftheSolution | 1)Inthefuture,weplantocontinueimproving performanceofthealgorithms  2)Intermsofdetectionaccuracyandsystem intermsofresponsetimeandenergy consumption.  3)Wealsoplantointegrateoursystemintoa real-worldmobiledevicesandedge/cloud computing-basedsystem.  4)Toenhancetheaccuracyofcurrent measurementsofdietarycaloricintake estimate. |