

## Problem statements for Computer Department

Sr. No.	Problem statement
1	Develop a solution for minimization of transportation cost of raw milk for dairy plant
2	Driving license controlled smart vehicle
3	Standard for estimating man-hours or man-days for design projects
4	Lacks availability of extracting theme file (rar format) in Wordpress File Manager
5	Develop Project Management Tools for supporting Work from Home.
6	A digital android-based platform for generating , processing, tracking and payment of orders.
7	IoT and AI based Smart City Solution for Public Utilities like surveillance, garbage pickup, road maintenance
8	Encroachment detection, incident reporting, virtual patrolling etc.
9	Tracking real data for film promotion is a problem (viewers). Even after spending huge money and push
10	Promotion producer having no control on data. Develop a solution for the same.
11	AI based material movement for handling the Assembly Department.
12	Ceramika online portal for ceramic industry
13	Mobile Application for Ceramic industry and products
14	Accessing folder versions images of MS ACCESS by updated MS ACCESS version itself.
15	Develop customer relationship management system
16	Employee attendance tracking system.

17	Student online attendance monitoring system has to be developed. It will save time of all faculty and teachers
18	Biometric Fingerprint Scanner with ARDUINO
19	Automatic sorting and retrieving products with barcode mark
20	Designing a billing system for malls to reduce cumbersome task .
21	Balance -of -payment problem between industry and client after delivery services.
22	Employee time sheet and attendance management
23	Project management system
24	Automatic Job-card preparation system
25	Employee 360 overview
26	Digitalization of Production Details
27	Smart complaint Portal
28	Non availability of low cost software that may keep suppliers, customer and other parties from receipt of the order till supply of finished goods
29	Gst billing system
30	Optimization in crew scheduling of buses
31	Mobile based ivr system (interactive voice response system)
32	Bts battery health monitoring system .
33	Drive Test Automatic Data Analysis and Report Generation
34	lot based Universal Data Logger
35	lot based Accident Prone Device

36	GPS based Tracking Application With Logistics Management.
37	Detection System for Littering on Roads
38	Digital Water Management through Sensors
39	Geo-cop is a database and geographic information system(GIS) that provides online access to environmental data
40	IOT based Patient Health Monitoring System
41	Develop a solution to differentiate between dry & wet waste automatically while throwing a in dustbin.
42	How to find your vehicle in night in a big parking lot. When there is a big ground having thousands of vehicles and you have to find your bike scooter or cycle (modern cars have alarm system but what about
43	Bringing out automation and innovation of smart farm to guide and acknowledge farmers about farming
44	Activities like: irrigation,crops monitering through android application.
45	Android Application offering Digital platform for selling homemade Spices and Snacks/Pickles
46	Alarming issue to resolve air pollution resulted from increasing automobile exhaust gases especially in metropolis
47	Cost effective sophisticated IT tools for cyber security system.
48	Student online attendance monitoring system has to be developed. It will save time of all faculty and teachers.
49	Mobile Application for Ceramic industry and products
50	Smart Dustbin for Wet & Dry Waste- Develop a solution to differentiate between dry & wet waste automatically while throwing a in dustbin.
51	Cutting Inefficiency and Diagnosing Technical Problems
	Augmented Reality can help you see important and pertinent sensor data and KPIs along with any operational warning or production failure while walking down a production line. Even though this information is normally visible on a desktop application, contextually viewing these data when it matters the most ensures that users make the right decisions with increased efficiency.
	This would involve connecting as many sensors as can be connected together, extracting data from them, and depending on context, displaying what is most user friendly, efficient and relevant.

	Additionally, such systems can also allow users to interact with the system. For example, user can view the 3D replica of the machine, get enterprise system information such as who owns the item, when it was last serviced, etc. The user would also be able to view sensor data around RPMs, temperature, and oil.
52	AR Helmets
	Companies like DAQRI are developing helmets that don't only protect workers on the industrial floor but also enable them to spot hazards and provide live assistance when repairing equipments. Such smart helmets can provide step by step instruction to perform some form of assembly or provide them thermal vision to spot components that are overheating. The technology can ensure that users reduce time spent referring to printed instructions or booklet.
53	Visualizing Product Design
	It is often difficult for development/engineering teams to understand or visualize the design created by designers. AR can give designers the ability to visualize designs as if they are present in the room, provide feedback, make changes to their CAD/CAM diagrams and visualize the changes immediately using headset.
	Such designs can also be overlaid over existing products by the engineering team to visualize the extent of changes required. This would allow product designers and engineers to interactively discuss product refinements.
	This can also allow architects, designers and engineers to visualize upcoming buildings around them, see how their designs might look. Urban planners can also visualize the whole city plan or layouts using AR visualization headset.
54	Detecting and preventing machine failures
	Any machine failure and steps to fix the problems can be determined through the use of IoT and AI. For example, this can be elucidated through the example of centrifugal pump. Real time sensors will monitor machine conditions and detect anomalies and real time CFD analysis triggered to pinpoint the cause. Using AR, a real time image or CAD diagram can be projected on top of the pump to show exact steps for fixing the machine.
55	Monitoring crops and farm vehicles
	In case of droughts, sensors planted strategically in soil can provide farmer insights on whether soil has enough moisture and if not, alert the farmer regarding dry patches. The farmer can also keep tabs on the temperature of the soil.
	Additionally, farmers can sync the sensors present in tractors and pumps with their mobile application to receive alerts when they are running out of fuel or if temperature is too high.
56	Assembly assistance through the use of technical documents

	<p>“A picture is worth a thousand words”. This saying is true especially in case of assembly process. User manuals and technical documents can overcomplicate sometimes simple processes which might include regular repetitive process of assembly of industrial equipment.</p>
	<p>Augmented Reality can help by overlaying the assembly instructions or diagrams on top of the assembly steps. It can be used to overlay text, circuit diagrams, videos and augmented 3-D animations over pieces of equipments.</p>
	<p>They can also be used to show videos of previous actual assembly steps captured either by the person assembling it or by another worker.</p>
57	<p>Real time/Field Assistance</p>
	<p>AR can be used to provide real time assistance when field engineers visit site to repair an equipment. Specialists are quite expensive and hence can be harnessed every time a product goes rogue onsite. Field engineers, on the other hand, need to make multiple visits to the customer’s location to fix the same problem increasing the overall cost of fix.</p>
	<p>AR and AR headsets can allow field engineers to garner the help of specialists on an as needed basis while on the field. The specialists can view the issues through the headset, provide user instructions and in case of lack of understanding, show exact steps of assembly using CAD diagrams through the headset.</p>
58	<p>Reducing cost of shipping freight</p>
	<p>Currently, shipping of heavy equipments is an expensive process since this is manually performed and is not route optimized. AR can increase safety, reduce cost and pollution associated with the shipping process by allowing companies to control drone ships from remote control centers. This would allow a set of professionals adept at using AR technologies to monitor the drone ships that otherwise solely rely in AI and machine learning for getting directions.</p>
59	<p>Business Logistics</p>
	<p>AR presents a lot of opportunity to increase efficiency while reducing cost across business logistics including transportation, warehousing and route optimization. For example, logistic companies can utilize AR headsets to display the shortest route within a warehouse to locate an item and pick it for shipping. Headsets can also be used to display the order in which items need to be picked so that they can be shipped quickly and efficiently.</p>
60	<p>Medical Training</p>
	<p>AR can allow technicians to operate MRI equipment and perform complex surgeries. Students can even learn anatomy, practice surgeries, and delve deeper into human body using 3-D projections using AR headsets</p>

	Though the implementations of AR are many, lab technicians can also perform basic service of instruments themselves. For example, consider that there is a clog in a machine following which the lab technician would be unable to run any cleaning cycles. Normally, he would have to call up a service technician for help.
	However, AR will allow the lab technician to view the instrument through headset and provide instructions to clean the aperture.
	So, closing the loop, we believe IoT and AR are at a place where they can transform the world around them especially in cases where they work in cohort. The time is right to identify the most impactful use case in your business and leverage these technologies to maximize revenue and efficiency or minimize cost.
61	Find age based on DOB using flutter and dart.
62	Various pattern printing with variable no of lines using flutter and dart
63	Quiz using flutter & dart
64	Expense tracker using flutter & dart.
65	Symbol recognition
66	Face detection
67	Hospital management system
68	Project management system
69	Crime rate prediction
70	Epilepsy condition identification using EEG and deep learning
71	Home automation using EEG and deep learning
72	TV control using EEG and deep learning
73	EEG based Drowsy driver detection and deep learning
74	EEG for monitoring mental health
75	Monitoring effect of Spiritual music using EEG and deep learning
76	Automated Grading of sessional Answer Sheet using word embedding and similarity approach
77	Smart Agriculture System
78	Weather Reporting System
79	Face Recognition Bot
80	Smart Garage Door

81	Smart Alarm Clock
82	Air Pollution Monitoring System
83	Smart Parking System
84	Smart Traffic Management System
85	Smart Cradle System
86	Smart Gas Leakage Detector Bot
87	Streetlight Monitoring System
88	Smart Anti-Theft System
89	Liquid Level Monitoring System
90	Night Patrol Robot
91	Health Monitoring System
92	Smart Irrigation System
93	Flood Detection System
94	Mining Worker Safety Helmet
95	Smart Energy Grid
96	Contactless Doorbell
97	Virtual Doctor Robot
98	Smart Waste Management System
99	Forest Fire Alarm System