Project title	Description	Tools
sentimental analysis using hadoop and spark	Perform big data analysis on any bigger data like twitter data	Hadoop and Spark
Number recognize using Mobile platform	Application can do arithmentic operations based on number recognization	Android
Design framework for association rule mining algorithms	Implementation of association rule minng algorithms using java	JAVA
Effective Visualization of Large, Multidimensional Datasets using different tools		python/java/R
Classify the images using tensorflow library	Good python knowledge is required.	tensorflow

Prototype Synthetic Viewing System	Synthetic Viewing facilitates maintenance in inaccessible environments, by enriching with Augmented Reality, camera images or even calibrated to operate in a virtual reality environment. The system analyzes Synthetic Viewing camera images to identify and follow relevant objects in the scene. Their location and orientation on the basis of this spatial information is imported from a CAD model and is updated real-time. The calibrated models form the basis for adding Augmented Features, which are projected as an overlay on the camera images, or completely artificial and virtual reality scenes with high contrast and resolution. This Synthetic Viewing the system makes it possible for example occluded (hidden) to make visible features or to create a better approach to perform the task. Applications: Maintenance in environments with limited visibility Identifying and locating objects based on camera images Adding additional information in the field of view (a mechanic gets in image tags that describe parts of a system) Visualizing occluded objects	Unity 3D, Catia, Delmia, any 3D modeling software... But final tools will be decide after extensive literature survey and comparitive study of availabale tools and technology
Prototype Robotic Telemanipulation System		
Project management system	Software for managing company projects	
Game developement	implementation of any game	
Online job portal	Software for managing online jobs	

Character rocognition using deep learning model	Implementing a system for character recognition using deep learning model	
Design & devlopment of robotic arm	https://www.youtube.com/watch?	Arduno, rasbary pi
Railway track monitoring system	Detect common occurrences such as derailments, changes in track integrity or temperature, dragging equipment, and high wind speed from a single control unit.	Arduno, rasbary pi
Polution control montoring system	Use the concept of sensor network	Arduno, rasbary pi / any sensor network simulator
Implement stream cipher using multicore system		CUDA/ opencl
Interactive noticeboard		Arduno
Automatic parking allotment using sensor nodes	Use the concept of sensor network to detect the available parking space automatically	
Automatic Attendance Management System	Cost effective attendance management system for students	
Public key generation technique		
Random number generator		
Optimal Route scheduling for vehicles		
Photo Viewer	Photo viewer is an Android application that provides users with a facility for viewing a photo from different perspective. It allows users to examine images from many viewpoints and apply various effects.	Android
Mobile Theft Monitoring Android Application	It is an appication where it helps the user to find out where the device is if it is stolen.when the person steals the phone and changes the sim an automatic message which displayes the location of the device ,sim number,phone number, imsi number will be sent to a number which we specify in the settings . thus the device that has been stolan will be found easily .	Android
Project Management System	Managing various projects	Android

Patient Monitoring System	Interactive application for patient monitoring system	Android
Address Book	Managing addresses and it's contents	Android
Speaker Recognition		Python, Matlab
Song Diarization		Python, Matlab
Bird Species Classification		Python, Matlab
Audio Signal Classification		Python, Matlab
Place detection from lombard environment		Python, Matlab
Voice based authentication		Python, Matlab
Club Event Management App	Managing all Nirma Clubs	Android
Safe Home System	Managing home from any kind of theft by using sensors	Java, Aurdino, Raspbery Pie
Home Automation System	Managing home from android app	, AndriodJava, Aurdino, Raspbery Pie
Video Surveillance System	Surveillance System	JAVA, Matlab, NS2
Video Processing System	Processing the video	JAVA, Matllab, NS2
Online task management system	Using this sytem any organisation can allocate the task online to their employees	
Online Voting System	Users can cast their votes online to desired candidates.	
Student Result Portal	A student portal project that acts as an online portal between students and the admin. Using this portal students can see their result.	
Online Book Store System	An online bookstore software projects that acts as a central database containing various books in stock along with their title, author and cost.	
Auditorium Management System	Using this system one can manage the auditorium status and advance bookings. The system keeps records of auditorium bookings along with associated event details and customer contacts in a well maintained database.	
POS system for Cantteen	Manages food order and virtual receipt like bookmyshow	JAVA, Andriod,
Web site for stock verification and updation and auto alert facitlity	Managing various good and generate report	JAVA/ .Net, DBMS
Venue Booking App	Mangaging various venue and its requirements	Andriod,/ JAVA,

Big Data Analytics in Bioinformatics	Bioinformatics involves processing of large data which are geographically distributed over the net. The goal of this project is to use tools and techniques which could support processing such in real time.	R Programming/ Spark/ Hadoop
Optimizing Compiler for Parallel Architecture	The goal of this project is to integrate domain specific optimization in existing infrastructures.	Rose/LLVM/Soot Compiler Infrastructure
Deep Learning applications using CUDA	The goal of this project is to use Deep Leaning in application of your choice, since deep leaning is widely used in several domain.	C and CUDA programming
Energy efficient Routing in Wireless Sensor Networks		Castalia, Matlab
number plate recognition		Matlab
Multi-objective optimization technique in Wireless Sensor Networks		Castalia, Matlab
Cluster Head Election in WSN using Artificial Bee Colony algorithm		Castalia, Matlab
Key distribution in WSN		Castalia, Matlab
Home Accountancy System		
Document Management System		
Cloud Based Application		
Optimization of clustering techniques in WSN		Any open source WSN simulator
Automation of water sprinkler	To implement automated system for water supply in garden	Aruduino / Rasbary PI
Brute force attack detection using wireshark	The project demonstrates a technique by which brute force attacks on FTP servers can be detected using Wireshark Analysis	Wireshark
Flooding attack detection using anomaly techniques with wireshark	The project simulates a ping flood scenario, by using the ping command on the operating system and wireshark is installed and setup on the victim.	Wireshark
Implementation of Denial of Service attack & prevention		any network security tool
secure data aggregation using homomorphoic cryptosystem		WSN simulator

Power Calibration and Estimation tool for	measurment using Multimeter, aurduino/rasberry , process association using Operating System	Hardware/software
Application access pattern analysis	Learn computer application usage pattern for a computer system using machine learning	Machine learning, Operating system basic calls
Wordpress Theme designer	Wordpress Theme desiger /customizer	Net application
Water overflow Alarm	Mobile alert for water overflow	Image processing/sensor
Smart meter	Electricity on IoT	Hardware kit
Health Band	Band recording and notifying health irregularity	Hardware kit
web application for School students		
Medical data analysis		
implement a data warehouse		
comparision of data warehousing Tools		
Deep learning for image classification		
Data analysis using Python		
Android App for finding specified my pics in mobile		
Automatic attendance marking of a class		
Preparing Cyanogenmod Android build for a smartphone		
Using WiFi direct for peer-to-peer communication		
Online voting system app		Android
Reactive intrusion detection		
Voice based attendance		
Smart Parking system		
Smart power generator		Rasberry pi/arduino
challanges in Gujarati natural language processing(challenge 1)		Rasberry pi/arduino
challanges in Gujarati natural language processing(challenge 2)		java/python
challanges in Gujarati natural language processing(challenge 3)		java/python
		java/python
Social Network Analysis Utilizing Big Data Technology		Hadoop and Spark
Customer Profiling & Segmentation using Data Mining Techniques		Java,Hadoop
Enhancement in Cloud security		Java

A Profile-based Approach to Just-in-time Scalability for Cloud Applications		Java
PC Controlled Scrolling Message Display for Notice Board		
Voice Controlled Home Appliances		
Intelligent street light		
Optical Character Recognition Algorithm		Java
Weather Dashboard		MapReduce
Assisted Music Promotion Tool		Advanced Java & MongoDB
An internet of things approach for motion detection Using raspberry pi		Raspberry Pi
Online BookShop Management System		J2EE
Automatic assessment of source codes		
Virtual Programming Lab in Moodle		
Distributed Computing with Multiple Mobile Devices		
Securing Web Applicattions through OpenID and OAuth		
Secure storage service in Cloud Computing Enrvironment		
Comparison analysis of Classification algorithms		
Comparison analysis of Clustering algorithms		
Data Mining For Automated Personality Classification		
Android application for analysis of Car		
Andoid application to guide the purchase of home appliances		
Employee Management System		
Data Mining using Soft Computing tools		
Medical Diagnostic Expert System		
Knowledge Grid		
Home Management System		
Competitive Exam Preparation -Mobile app		
Identify optimal route - using google maps-Mobile app		
3D Game Development using python		

Sheet1

Exploring OpenMP		
Game development using OpenGL		
OCR		
Image fusion		
Image Forgery detection		
Image segmentation		
Image tagging		
sentiment aspect extraction		
Followee recommendation		
Sentiment classification		
Content based recommender system		
Collobrative recommender system		
Time table mobile application		
Book recommender system		
Data visualization tool		
Association rule mining		
Quiz application		
Attendance marking app		
Network performance tool		
Online attendance system for remote places		
Implemantation of compression algorithm		
Image Forgery detection		