

Notice: Mini Project Notice for 6th Semester

The following lists the topics of mini project for 6th Semester student. The paradigm of mini project this time is to enhance the thinking capabilities of the students.- The students should decide the intricacies of the project themselves. While the students can take the mentorship of the faculty members, the requirements and the subsequent solutions will be developed by the students themselves.

The projects should be done individually. Also, a cap of 25 numbers is kept for each project, i.e., each project can be taken up by a maximum of 25 students only.

Students are required to go through the list and keep a list of topics selected. The students will have to register their topics on Monday, 7th March, 2022, through a registration portal (the URL of the registration portal will be announced through a separate notice). The choice allocation will happen on first come first serve basis through the portal.

Project Number	Project Topic
1	Wildfire prediction and detection in Uttarakhand using Machine Learning
2	Use Brain MRI images to detect Alzheimer's Disease
3	Detection of Hindi (or any Indian) language handwritten characters using Deep Learning
4	Develop a high quality Android App for CSE Department that can be hosted in Google Play Store
5	Develop a chatbot that answers FAQs related to different departments of GEHU
6	Develop an IoT based system to measure individual vital parameters {temperature, heart beats etc} and keep a record.
7	Create a web site / mobile app with Face recognition login feature and capable of using Voice commands to search data.
8	Develop a smartfarming app: This app will farmers to get timely advice on their farming issues. The farmers also should be able to upload photos of plants to get advice from experts. Experts will review and provide their advice over app.
9	Develop a AI/ML/Deep Learning/Neural Network based system to identify if a person is in stress from images or videos
10	Recommendation system for a user based on his/her posts/images on social media
11	Image generation from Captions
12	Develop a mobile app for waste management issues
13	Fake news detection
14	Predicting PM 2.5 Pollution Using suitable Weather Dataset
15	Detecting Biodegradable and Non Biodegradable wastes from Images
16	Visualization Dashboard using Tableau for any hospitals in India (use dataset from data.gov.in)
17	Extracting data from scanned images
18	Use of Machine Learning in Climate Change: Predict future climate patterns all around the world
19	Develop an app for mental health issues
20	Predicting the outcomes of patients in ICU using Machine Learning Techniques
21	Develop a web site/mobile app to promote and support 'Organic Farming' in Uttarakhand. If you develop it as web site you must use modern frameworks.
22	Medical Test Recommender based on symptoms and questionnaire

23	Machine Learning for Personalized Treatment
24	Develop a high quality digital health app
25	Scene generation using Virtual Reality
26	Application of Machine Learning Algorithms/AI in Cyber Security
27	Blockchain based food distribution system
28	Blockchain based Health Records of citizens
29	Develop a high quality Android App for GEHU that can be hosted in Google Play Store
30	Develop a high quality IOS App for GEHU that can be hosted in App Store
31	Malware scanning in Cloud
32	A secure way to aggregate customer data
33	Develop applications to automatically collect physical data from mobile/wearable devices and analyze the data
34	Develop applications to automatically collect behavioral data from mobile devices and analyze the data
35	Detection of cyber bullying in Social Media posts
36	Machine Learning based music genre classification
37	Classification of foods and providing health score of the food using Deep Learning/CNN
38	Develop a Mobile App related to Preventive Health Care
39	Prediction of long-term health issues of patients recovered from Covid19 based on Lung images/other related data
40	Use of AI/Machine Learning for the disabled
41	Use of IoT for the disabled
42	Recognition of cursive handwriting using Machine Learning/AI techniques
43	Identification and extraction of entities from unstructured data using machine learning/deep learning techniques
44	Sentiment Analysis of tweets to understand major issues of a product/company
45	Use of AI in Water Conservation specific to the state of Uttarakhand
46	Mobile App to represent the biodiversity of Uttarakhand
47	Use of AI/ML/IoT to reduce Man-animal conflict
48	Use of Data Science for environmental sustainability
49	Use of geospatial/weather/IoT data to predict and plan for critical weather-related events
50	Use of AI/ML for minimizing logistics-related emissions
51	PL-SQL to ANSI-SQL conversion using Machine Learning
52	Developing a mobile app of people networks using data from LinkedIn. The links between people, their skills, and projects they worked with should be constructed in the app.