

Name	Email Id	Phone number	Project title	Brief description of the project	Expected work load per week	Project ID
Akshay Kumar	kakshay@iitk.ac.in	9452511316	Hypercomputation	<p>In this project, I would like to search beyond the realms of present notion of computability. The project would start off with brief overview of the work of Alan Turing and then we would dwelve into the world of hypercomputation.</p> <p>You may visit http://en.wikipedia.org/wiki/Hypercomputation for an introduction about hypercomputation. Don't worry if you are not able to comprehend its technical details. We will cover the concepts right from scratch.</p>	2	1
Peeyush Agarwal	peeyusha@iitk.ac.in	8953453689	Introduction to Web Development with Rails	<p>1. Why Rails -Agile, quick development -DRY, Convention over configuration etc.</p> <p>2. Basics of MVC (Model, View, Controller) through Rails -What it is and why it is necessary -How it is done in Rails</p> <p>3. Simple Online Store/Blogging Site -Designing and Implementing Database -Simple styling of pages -Implementation of Authorization --Basic implementation from scratch --Implementation using Devise(Thus giving introduction to gems)</p> <p>4. Deployment on Heroku (If time permits)</p>	1.5-2	2
Shashwat Chandra	chandras@iitk.ac.in	9936335650	News Map	<p>This project shall involves following/scraping the twitter feed of a news agency, and plotting on a world map the locations mentioned in the feed.</p> <p>The student(s) shall learn about web scraping, and APIs.</p> <p>Time-permitting, it can be extended to using Named Entity Recognition for detecting organizations and finding their locations.</p>	2	3
Shashwat Chandra	chandras@iitk.ac.in	9936335650	Making a programming language	<p>The Student shall create a programming language that shall be used to move a robot in a virtual arena (created by the student).</p> <p>Time permitting, the arena shall be modified to allow multiple robots to battle.</p>	2	4
Shivanshu Agrawal	agrawals@iitk.ac.in	8960785350	Programming in C# to develop apps for .NET platform	<p>develop any app suggested by the team for Microsoft Platform using C#. Maybe for Kinect or Windows Phone.</p>	2-3	5
Sumit Kalra	sumitk@cse.iitk.ac.in	8004454632	cloud configuration and automation	<p>Various cloud system implementations and configuration.</p>	2-3 hrs	6

Name	Email Id	Phone number	Project title	Brief description of the project	Expected work load per week	Project ID
Sumit Kalra	sumitk@cse.iitk.ac.in	8004454632	P2P Computing	Mobile communication on Android without central server with dynamic address	2-3 hrs	7
Nikunj Agrawal, Aniruddha Zalani	nikunja@iitk.ac.in, aniruddh@iitk.ac.in	9005830816	News article classification	Build a web crawler to collect news articles. Create a database of news article with their respective category. Then classify the articles using basic Machine Learning and Natural Language Processing techniques.	2-3 hours	8
Shahbaz Khan	shahbazk@	9358324773	Implementation of Top Trees	Top trees are the most powerful form of Dynamic Trees. Its applications are very wide. However its implementation is very non-trivial. We shall mainly work on its implementation based on existing model by Renato Werneck. As a best possible result we may be able to simplify the implementation.		9
Prabhat Pandey	prabhatp@iitk.ac.in	7607457187	Handwritten number recognition	Given a dataset of handwritten characters, recognize different characters.	2	10
Harshit Maheshwari	harshitm@iitk.ac.in	7755839688	Online Recommender System	Develop an online recommender system to rate different movies.	2	11
Utkarsh Patange	upatange@iitk.ac.in	9651743002	Dijkstra's Algorithm	Problem statement is to find shortest path in a directed weighted graph having much less than n-square edges. Implementation of adjacency list for graph and binary heap will be the major components. Students will also learn about Fibonacci heap and compare the performance with binary heaps.		12
Prashant Jalan	prasant@iitk.ac.in	8960402355	Android App	Develop an Android application. Idea will be chosen by the team members. If the app is completely developed we will submit it for the Google AdMob challenge.		13
Ankush Sachdeva	sankush@iitk.ac.in	8960401530	Captcha Decoder	build a browser plugin plugin to automatically decode captcha on a specific website	2	14
Vijay Keswani, Rachit Nimavat	vijaykes@iitk.ac.in, nimavat@iitk.ac.in	9621249771	Peer to peer file backup	Build a p2p network to backup files. Files will be broken into smaller pieces and distributed over the network.		15
Supervisor: Mr. B K Mishra (will be mentored by Prithvi Sharma)	prithvis@iitk.ac.in	9621260045	CSE Library Automation	Develop a platform for automation of CSE library. Provide support for LDAP authentication. You have the option of building upon the existing software or using open source projects to develop a new portal.		16
Supervisor: Mr. B M Shukla (Ayush Mittal)	ayushmi@iitk.ac.in	8765696161	Sanskrit Dictionary	Port the existing Sanskrit dictionary database from XML to MySQL and develop a software to retrieve phonetically similar words from the dictionary given a query transliterated in English.		17
Supervisor: Mr. B M Shukla (Ayush Mittal)	ayushmi@iitk.ac.in	8765696161	Server voltage monitoring	Analyzing server voltage with ADC and raspberry pi		18

Name	Email Id	Phone number	Project title	Brief description of the project	Expected work load per week	Project ID
Mridul Verma	mridulv@iitk.ac.in	7376299350	Inter Lan Chatting Client	To build an desktop application or a browser application which could be used by any individual in the campus to chat to any other person in the campus.		19
Sakshi Sinha	sakshis@iitk.ac.in	8765696066	Cube Solver Game	A game which can solve a 3x3x3 rubik's cube of any random orientation. It would use wxpython for GUI and opencv for image processing.	3	20
Satyajit Bhadange	satyab@iitk.ac.in		Identification of dense graphs	Discovery of dense clusters in graphs. Based on user search query, we will find the graph of webpages which are densely connected to each other.		21
Dhruv Anand	adhruv@iitk.ac.in	9005835499	Map Reduce and Hadoop	Introduction to Map Reduce and Hadoop. Students will learn about various database models, distributed computing and related applications		22