

Group No.	Project Title	Teacher in-charge	Members	Member #1 contact number	Attach link of google drive folder corresponding to group no
33AW ##1	Authentication Protocols for IoT devices using Cryptography	Bijendra Kumar	Adarsh 211/CO/15, Harmanpreet Singh Grover 258/CO/15, ,	9910338953	https://drive.google.com/folder?id=1sz12Vu1wg5d-5uiN9kSaw-clQztfAbZ0
2	Integrating Topic modeling and clustering for Twitter Data	Bijendar Kumar Singh	Divyanshu Gautam 252CO15, Dilkhush 250CO15, Dhruv Bokolia 249CO15, Himesh Bhatia 263CO15	9871839603	https://drive.google.com/folder?id=1H-M3wxc6W_pO6HG8tPj5qPfbUzzrUekp
3	Music Genre Classification using Machine Learning	Mr. Rajeev Kumar	Chiranjeev Singh 245/CO/15, Dolly 253/CO/15, Gurshid 256/CO/15,	9899465160	https://drive.google.com/open?id=1wWRM1cIxqrBgeKRZ2OFFCPT1EIOUkAIA
4	Medical image interpolation	Sangeeta Sabharwal	Jatin Bansal 269CO15, Ayush Bhardwaj 241CO15, Archit Panwar 233CO15,	9810123095	https://drive.google.com/drive/folders/1nG8ReIE6rFYvh3vGDnpxdAn7OITGZIRZ?usp=sharing
5	Video Steganography using Deep Learning	Prof. M.P.S Bhatia	Sarthak Goel 349CO15, Shubham Bansal 364CO15, Sarthak Srivastava 350CO15,	7838064925	https://drive.google.com/open?id=1adKLDINrpXALgqk-RMa1DZW2Om2fkIPb
6	Video Summarization and Captioning	Swati Aggarwal	Aman 221CO15, Anand Zutshi 225CO15, Apaar Gupta 230CO15, Aayushi 203CO15	8447135725	https://drive.google.com/open?id=1HAyo7cx9fJUCm63tghpT6yUkRDAGOmz
7	Question Independent Code Analysis and Grading using Bag of Words and Machine Learning	Dr. Pinaki Chakraborty	Bhavya Gupta 243/CO/15, Kaushal Kumar Rai 273/CO/15, Pardeep Shokeen 305/CO/15,	9560364671	https://drive.google.com/open?id=1mc88vUrzyTIVKu5_oLvYAp8kkRJj3kRm
8	Load Scheduling using Swarm Intelligence Algorithm	Professor BK Singh	Utkarsh Tyagi 391CO15, Sidharth Yadav 374CO15, Shubham Kumar 366CO15,	9717410819	https://drive.google.com/open?id=13RyCIqoyQbPN7aarPEHQLWPBSWI07FGX
9	Automated Liver and Lesion Segmentation with Adaptive Learning Rate	Dr. Sushama Nagpal	Sakshi Garg 342/CO/15, Shivam Gupta 362/CO/15, Soumya Shreya 377CO15,	9821277410	https://drive.google.com/drive/folders/177BII0iG8Z_E2Q_BvvumUeGouH6iOa5bU?usp=sharing
10	An Efficient Approach to information hiding through Reversible Image Stegenography	Khushil Kumar Saini	Mudit Bhardwaj 293CO15, Lovedeep Singh 281CO15, ,	9990015348	https://drive.google.com/drive/folders/13gP9YfYxJ0Qbf46S_eMBgWeHcfvMdv_r?usp=sharing
11	Decentralized Deep Learning	Dr. M.P.S. Bhatia	Sandipan Dutta 347CO15, Swaraj Kumar 381CO15, Shaurya Chaturvedi 357CO15,	9717510574	https://drive.google.com/drive/folders/1HollcNMF41z7pnGnekAG-Z9SIAvNE2eW?usp=sharing
12	Automated Attendance Management System Using Face Recognition	Ms Veenu	MUKUL YADAV 294CO15, LAKSHAY 280CO15, ,	7834856649	https://drive.google.com/open?id=1AfnScNuAnE30nW6VkV1fauHIVwB2wmsn
13	Study and analysis of internet and gaming addiction	Swati Aggarwal	Varshika Gambhir 395CO15, Simrat Pal Singh Satia 376CO15, Shivin Saluja 363CO15, Shubhi Gupta 369CO15	8585906558	https://drive.google.com/open?id=1I3EpiqmJdVMGzZ7Vh71LTcudP6f05xk9

14	Retinal vasculature segmentation using gan	Mr. Khushil saini	Srishti 379/CO/15, Vedant rao 399/CO/15, ,	9582549807	https://drive.google.com/open?id=162Aad6eWj_GmbTZx4T4QCxPnwLF6C7bl
15	Influence on Facebook usage on academic performance of students	Pinaki Chakravarty	Yasheel Vyas 410CO15, Vandana Miglani 394CO15, Yatharth Yadav 411CO15,	9810670075	https://drive.google.com/open?id=1t8RULUHAREsojj1oWM70EMvy5JxI4-hB
16	End to End Audio Transforms	Swati Aggarwal	Sameer Garg 344CO15, Shashwat Aggarwal 355CO15, Shashwat Uttam 356CO15, Shubham Garg 365CO15	9953446963	https://drive.google.com/drive/folders/16EMhbgcedgFBEot0Sdca2jyycgX0F6xT?usp=sharing
17	Driver Drowsiness and distraction Detection	Preeti Kaur	Yash Sharma 409CO15, Ankit Yadav 413CO15, Sandeep Kumar 345CO15,	8802625221	https://drive.google.com/drive/folders/1zmRoKuxNQ0-SVFzIrMHBhudJY1w3dM1L?usp=sharing
18	Facial Detection, Recognition and Security	Satbir Jain	Himan Boro 259CO15, Chetan Chauhan 244CO15, Aditya Anand 209CO14,	7982901253	https://drive.google.com/drive/folders/1z_Kd5in8p_lpzmOaLBtxY-VrVZ83uEsi
19	Analysis of Generative Adversarial Neural Network (GAN)	Swati Aggarwal	Sidhant Nagpal 373CO15, Siddharth Verma 371CO15, Shikhar Gupta 358CO15,	9868003602	https://drive.google.com/drive/folders/1TGMER0zXsJ-6RvI_9urcgL8Yul9D24lkF?usp=sharing
20	IMAGE GENERATION USING TEXTUAL DESCRIPTION	Dr. SUSHAMA NAGPAL	RATTANDEEP SINGH 331CO15, RAJAT SINGHAL 327CO15, ,	8447151548	https://drive.google.com/open?id=1SyRjD5D41VsKXN8HEp6an8Nwd7PYOChe2
21	Social Media Analysis Using Deep Learning And NLP Techniques	Dr. Sushama Nagpal	Shantanu Agrawal 354CO15, Samarth Sehgal 343CO15, Shikhar Pahadia 359CO15,	9811758266	https://drive.google.com/drive/folders/1hg1nItrOD5-pMWX5tr8AB2aTHwx2DpXK?usp=sharing
22	Creating a Ruby library(gem) for constructing and simulating digital circuits, analog circuits and integrated circuits(ICs).	Savita Yadav	Amandeep Singh 223CO15, Ashish Yadav 235CO15, ,	8527948696	https://drive.google.com/drive/folders/19wSdpMsGhgVzhx0YUjHxO3jyyfTmagNo?usp=sharing
23	Colorization of grayscale images	Sangeeta Sabharwal	Ashish Rana 236CO15, Deepanshu Chauhan 247CO15, Gaurav Sharma 255CO15,	8826146382	https://drive.google.com/drive/folders/1QkjCOzqcK61MqfkGWE6Oljtm_nk91QX4?usp=sharing
24	TEXT SUMMARISATION	Savita Yadav	Abhishek Chaudhary 207CO15, Himanshu Vats 262CO15, ,	9643755596	https://drive.google.com/drive/folders/1rIyu6FPJULfeBLndTh7BW-aZEGYnW-Jk?usp=sharing
25	A novel method to generate text by capturing eye blink pattern for people suffering from Locked-in syndrome.	Anand Gupta	Vikas Goswami 402CO15, Vineet Goyal 404CO15, ,	9871071449	https://drive.google.com/open?id=1zXJDgvi6s27Ozy5S5g7GVdsouKU90rKU
26	Recommender system	Sangeeta Sabharwal	Pratishtha Panwar 315CO15, Hardik Jain 257CO15, Manan Chawla 283CO15,	9953053304	https://drive.google.com/drive/folders/1hNu40ZpIgeVMfJgjVuFXVA8x2DQwZOfM?usp=sharing
27	Analysis of Musical Track through Machine Learning and implementation of rating system	Shampa Chakraverty	Aditya Aggarwal 213CO15, Akshansh Malik 219CO15, Dhannanjay Raje Vaid 248CO15,	9810305560	https://drive.google.com/open?id=1GZp7Q54UVr4ajus5aR71yjiTi-JZNrMl

28	Plant disease diagnosis and treatment through deep learning	Mr. Khushil Saini	Vipul Tanwar 406CO15, Vivek Kumar Sinha 408CO15, Vipul Verma 407CO15,	8285015747	https://drive.google.com/folders/1ji6MlCIwG1p2KIwm-c5YcFGAFVWeB0G
29	Drawing and Recognizing Images, Scene Creation and Caption Generation by applying Computer Vision Techniques	Sangeeta Sabharwal	Jasleen Kaur 267CO15, Jatin Bansal 270CO15, Arzoo Yadav 234CO15,	8146992661	https://drive.google.com/folders/15Zpyl6MMSMcEDKwCRUMMUFP1DiAjUbU
30	Intelligent Virtual Voice Assistant analysis and Implementation using python	Prof. Sangeeta Sabharwal	Vikas Yadav 403CO15, Amit Yadav 224CO15,	7289028972	https://drive.google.com/folders/1yOAuQuiVILscgWOqUOK1jN2zYm5rNeZg?usp=sharing
31	Automated image captioning using CNN and LSTM and impact of using R-CNN along with CNN	Khushil Kumar Saini	Raghav Wadhwa 323CO15, Shagun Chauhan 353CO15, Ujjawal 388CO15, Varun Baweja 396CO15	8860434575	https://drive.google.com/folders/1x8VVwCVxfRtyNOuGmFMmvgSMg-6Wk2Cj
32	Audio Summarizer	Preeti Kaur	Nishank Dawar 300/CO/15, Nikhil Kalra 297/CO/15, Kuldeep Singh 277/CO/15,	9311443083	https://drive.google.com/folders/1rNxBCePD XsB64NdLP0BUDOnij0c-cSE?usp=sharing
33	Analysis of image steganography techniques	Anand Gupta	Avani Verma 240CO15, Aman Singh 222CO15, ,	9013495544	https://drive.google.com/folders/179w9Py0jeGO2O4xa6mLAp5M0BEddWT1L
34	Handwriting generation system using deep learning	Sangeeta Sabharwal	Shivam 360CO15, Sandhini 346CO15, Santosh Kant 348CO15,	7087733428	https://drive.google.com/folders/1uujzomNwJca5Alg55Pt62ApVJLwddNnF?usp=sharing
35	Deep Neural Network based Model Architecture with word embeddings as features for Recommender systems	Dr. Anand Gupta	Abhishek Govil 209CO15, Aditya Nand 214CO15, Hritwik Dutta 265CO15,	8505812345	https://drive.google.com/folders/15lx75nXat7Nt_PVSOA-6tmpUdTtI224?usp=sharing
36	Air Quality Index Estimation Based On Image Analysis	Ms. Veenu	Marvin Tokas 291CO15, Prajjwal Rohilla 312CO15, ,	9717867044	Group36_BTP
37	Traffic Light Management System	Khushil Saini	Vedant Dhiman 398CO15, Sumit Yadav 380CO15, Vinod Kumar 405CO15,	9958744385	Group_37_BTP
38	Redesigning cab sharing algorithm	Mr. Anand Gupta	Sweta Nandal 382CO15, Shubham Roy 368CO15, Shubham Kumar 367CO15,	9953365724	Group_38
39	CROWD COUNT ESTIMATION IN HIGHLY DENSE IMAGES USING CONVOLUTIONAL NEURAL NETWORKS AND MARKOV RANDOM FIELDS	Ms. Veenu	Siddheshwar Singh Negi 372CO15, Sourav Sharma 378CO15, ,	8219597411	GROUP_39
40	Music Production using Deep learning	Ms. Veenu	Prashant Kumar Meena 314CO15, Rahul 324CO15, Nitin Pandey 302CO15,	9013157432	Group_40_BTP

41	Image colorization of grayscale images	Satbir Jain	Kumar Ujjwal 278CO15, Rashmi Chaudhary 329CO15, Abhishek Deyol 208CO15, Pooja Kumari 311CO15	9899296075	https://drive.google.com/drive/folders/12Wr0lFBW1UeLxLD0jT0B2WBv1dME66IP?usp=sharing
42	Self Solving Game using NEAT	Rajeev Kumar	Aditya Singh 216CO15, Ankur Yadav 227CO15, Ashwani Lingwal 238CO15,	8383898940	https://drive.google.com/open?id=1vHibmfBZ8pgGggm252QODCP4z7nqvdsds
43	Determining the accuracy of sentimental analysis as a stock market prediction technique	Mr Rajeev Kumar	Ishan Ambardar 266CO15, Akhil Yadav 217CO15, Himank Rao 260CO15,	9910054556	https://drive.google.com/open?id=1OIOWyxZBKEoOqVtKljm-Z0bJdiguEDN
44	Sign language translation	Sangeeta Sabharwal	Aabhas Gupta 201CO15, Abhinav Bansal 204CO15, Aakash Bansal 202CO15,	9560169246	https://drive.google.com/open?id=1DUbPJBPVdRKj7fmjmFHaszvXFEcx3xx
45	CAPTCHA recognition using deep convolutional neural networks	Mr. Rajeev Kumar	Ashwani Kumar 237/CO/15, Aditya Pratap Singh 215/CO/15, ,	9873870284	https://drive.google.com/open?id=1hSwwBMUIjRR1iKvOqTnIIRWseZGYX9Ou
46	Educational tool (networking) using raspberry pi	Mr. Rajeev Kumar	Apratim Gupta 232CO15, Himanshu Attri 261CO15, ,	9953728690	https://drive.google.com/drive/folders/1_7XGm7G72m9CvfJOvBZ6SXV3jv_ND2l_?usp=sharing
47	Exploratory Data Analysis	Mrs. Sangeeta Sabharwal	Nishant Dayal 301CO15, Manupriyam Jindal 290CO15, Raghav Agarwal 321CO15, Parth Gupta 306CO1	9891692696	https://drive.google.com/drive/folders/1qnRMC5ezck-dFjVpsz3wvBYOsCAoEvk0?usp=sharing
48	CrimeFile Management System	-	jatin kumar 271CO15, nikhil meena 298CO15, pooja singh 310CO15,	8826056703	https://drive.google.com/open?id=1Rqhx5EpZHht9prXBodQhJMSUh26NxXVe
49	MySteth : A personalized tool for detecting abnormal heartbeat	Dr Swati Aggarwal	Rohit Jain 336CO15, Khwaja Mohammad Salik 274CO15, ,	9560391040	
50	Visual Text-Entry based on Morse code generated by eye blinks	Rajiv Kumar Sir	Rohit Rao 337/CO/15, Abhishek 205/CO/15, ,	9013939226	https://drive.google.com/open?id=1E7eqGyT4hVSHpfEaC3EKO64cb19N-4KV
51	Navigation System Contrivance Using Augmented Reality	Ms Savita Yadav	Abhishek 206CO15, Anurag tirkey 229CO15, Ishaan kumar 264CO15, Divyansh dalal 251CO15	7838859572	https://drive.google.com/folder/view?id=1-BZiIEUZGXsTswTkF2DTAulWE6MRln9
52	Ultrasound Nerve Segmentation	Dr. Pinaki Chakraborty	Nupur Baghel 303CO15, Paavini Nanda 304CO15, ,	9810537950	https://drive.google.com/drive/folders/1Zc-Pgqj17GIC-Y4e_JE_QZLHDB5N2275Y?usp=sharing
53	Classification of text into Linguistic and Non-linguistic categories using Machine Learning techniques	Mrs Sushama Nagpal	Ritika Bedhara 334CO15, Rashmeet Kaur 330CO15, Saksham Nagpal 340CO15,	8587857088	https://drive.google.com/open?id=19r3wptDC6OON3COJIPgAkeDOieKllkex
54	Non-Contact Heart Rate Monitoring Application Using Mobile Camera	Mr. MPS Bhatia	Ujjwal Sharma 390CO15, Tanvi Sharma 383CO15, Manikaant Suryan 286CO15,	8285860797	https://drive.google.com/open?id=1V-ru938nM5bEKcNMfynmh8yi23a0-NR
55	Machine Learning in Healthcare and Medicine	Ms. Sangeeta Sabharwal	Aditi Tayal 212CO15, Anchal Garg 226CO15, Abhishek Yadav 210CO15,	9910371959	https://drive.google.com/drive/folders/1zZ-Tn2Of7fLM1FKe3erNi9d3w3oOBgr?usp=sharing

56	Report & Request System based on object detection & Image comparison	Mrs. Veenu	Manish Kumar 288CO15, Navneet Kumar 295CO15, Rachna Saini 320CO15,	9319315738	https://drive.google.com/drive/folders/1-XyMY7uAMAHWTyw83jKchZ8lF4kb3dd
57	Achieving super-resolution for microscopic images using deep learning	Prof. Satbir Jain	Tanya Gupta 385/CO/15, Vibhu Bhatia 839/BT/15, ,	9599754698	https://drive.google.com/open?id=1718nkY7HqOt28HL16p49Dh0f30JdMhcX
58	Accent conversion using deep learning techniques	Dr. MPS Bhatia	Kush Misra 279CO15, Mayank Kumar 292CO15, Luv Misra 282CO15,	9910711653	https://drive.google.com/open?id=1EEI3V-hC-HH2y4MqtlIFq1KnaeonVWvz
59	Lipreading for resource constrained environments	Ms. Preeti Kaur	Nilay Shrivastava 299CO15, Astitwa Saxena 239CO15, ,	8588036791	https://drive.google.com/open?id=1i9Xx66R2ORJli_yAXYTiA4ZFgAzjV01X

60	Online fraudulent transactions detection system	Mrs Veenu	Saksham Kumar 339CO15, Parth Tanwar 307CO15, Puneet 318CO15,	9654439268	https://drive.google.com/open?id=18pMAHdZBzkDp4dSdqcofpm9taekcSvAP
61	Software Controlled Prosthetic Hand	Dr. Pinaki Chakraborty	Apoorva Gupta 231/CO/15, Bhavya Aggarwal 242/CO/15, ,	9654194764	https://drive.google.com/open?id=16eYstqU4VJiXiTGgdTINh2FIU-ZxNyYu
62	Modelling Investor Behaviour in Stock Markets Using Mean Field Game Theory	Dr Swati Aggarwal	Siddarth Bisht 370CO15, Vaibhav Goel 392CO15, Satvik Jain 351CO15,	9891062633	https://drive.google.com/open?id=1w1_JlpG7YjYt-l_KU7Kns8dIfSWbx74
63	Automatic vehicle speed detection using video processing	Khushil Saini	Vignesh Srikumar Iyer 401CO15, Thanglianpau Boipu 386CO15, ,	8826574030	https://drive.google.com/open?id=1jg3IJzb08QMchfK1hSj98cvsg0IWm15R
64	Multilingual Sentiment Analysis using Deep Learning	Professor Satbir Jain	Hitesh Nankani 264CO15, Vamsi 308CO15, ,	8920299360	https://drive.google.com/open?id=1a_BH5owWbgZxki8zzLOluM7BgkZxJdOg
65	Dvesh Prahari : Detecting vindictive behavior from social media in code switched languages using NLP and vision techniques	Preeti Kaur	Kshitij Rajput 276CO15, Raghav Kapoor 322CO15, ,	9953119201	https://drive.google.com/drive/folders/1MzTGitgywamZR-YxeDnKHpC2VtraTp-w?usp=sharing
66	Genre Prediction and Movie Recommendation using Boltzmann Machine	Dr. Ritu Sibal	Sakshi Dagar 341CO15, Tushar Yadav 387CO15, Vasu Aggarwal 397CO15, Anshul Arya 412CO15	9643456554	https://drive.google.com/drive/folders/1fk_sKOYXJXV118UqxrZlZ-YHKLX_vml?usp=sharing
67	Comparing the robustness of Defenses against Adversarial Attacks in Neural Networks	Dr. Swati Aggarwal	Vaibhavi Singh 393CO15, Shivam Garg 361CO15, Simra Afreen 375CO15, Vibhav Agarwal 400CO15	8130733945	https://drive.google.com/drive/folders/1y1f1f5haAjm6UV2igtknr9bOAJxDH7K7x?usp=sharing
68	To develop a model to automatically trade a model in stock market and generate profit using Artificial Intelligence	Pinaki Chakroborty	Tanya Gupta 384CO15, Ujjawal Chugh 389CO15, ,	8130605925	https://drive.google.com/drive/folders/1akTMAByRsJ8cRn-SJVP7KghDuXzZYYzN?usp=sharing
69	Analysis of Anthropogenic Effects on Indian Climate	Mrs. Preeti Kaur	Raunaq Surya Khattar 332CO15, Manan Rishi Aneja 285CO15, Karan Verma 272CO15,	9560222255	https://drive.google.com/open?id=1kMslbja_vIgoOs5Lp4lZMBAXCtYPUV5M

70	Optimizing website design using nature inspired metaheuristics.	Ms Savita Yadav	Rishab 333CO15, Priyanshu Gautam 316CO15, Pulkit Chhiller 317CO15,	9643404026	https://drive.google.com/open?id=1Q103Vj-MO-PrkkWpNifcpxS1yJ8_Aexk
71	Activity analysis	Rajeev Kumar	Krishan kumar 275CO15, Manjeet singh 289CO15, ,	9899392565	https://drive.google.com/open?id=1xjltfOnDfesOO5E8ZyudjRtzi_zz_GE2
72	Deep Neural Evolution	Ms Poonam Rani	Manan Singh 284CO15, Manish 287CO15, Sahil Gupta 338CO15,	9457226437	https://drive.google.com/open?id=1GgVDbWKK5s-9nkDj65CjP6dFwEL3rYYA
73	Study of factors which influence the commercial success of Hindi songs	Rajeev Kumar	Akshaye Singhi 220CO15, Akhilesh Palanikumar Naidu 218CO15, ,	8448848902	https://drive.google.com/drive/folders/1PxelPbyT4yK4ZyMRn-7E3Y-kq8W_6oXe?usp=sharing
74	An Email application for visually impaired	Dr. Ritu Sibal	Prakhar Kumar Singh 313CO15, Rahul Gaiindwal 325CO15	9990001456	https://drive.google.com/drive/folders/1488UHvOwIqYm0XFWAh-GqY3n5Y5-Q0kV
75	Video stabilization using open CV	Dr. Ritu Sibal	Rajeev Kumar Rai 328CO15, Rohan Balot 335CO15	8447761642	https://drive.google.com/drive/folders/1YS0GG-7TD24cMqp_9GWp724xkXUujUv-?usp=sharing
76	MySteth: A Personalized Tool for Home Screening of Heart Diseases	Dr. Swati Aggarwal	Khwaja Mohammad Salik 274CO15, Rohit Jain 336CO15	8377033170	https://drive.google.com/open?id=1-3kcqqJ9SOFtg4HObBbDVGSDelXVhux3