Network Science Project Topics

Group Number	Group Members	Project
1	Pradeep Kumar, Deepak Verma, Ajay Deshmukh, Nabeel Qaiser	Motifs in Temporal Networks. a) Refer to paper "Motifs in Temporal Networks". b) Use ArnetMiner Dataset.
2	Abhijit Roy, Jai Tatia, Kshitij Susheel Jauhri, Shashwat Tiwari	Robustness of Centrality Measures incase of Perturbations. a) Refer to paper "On the robustness of centrality measures against link weight quantization in social networks". b) Use ArnetMiner Dataset.
3	Ashish raj, Sahil Sharma, Saharsh Singh ,Bhavit Sharma	Community Detection in Temporal Networks. a) Refer to paper "A fast algorithm for community detection in temporal networks". b) Use ArnetMiner Dataset
4	Shifona Garg, Vignesh Edithal, Gopal Kumar, Laxman Kumar Prabhakar	Information Diffusion in Social Networks a) Refer to this paper "Diffusive Logistic Model Towards Predicting Information Diffusion in Online Social Networks". b) Dataset will be provided by Manish. **Mentor**: Manish
5	Alan Aipe, Shubham Kumar Verma Prince Raheja, Sushant Kumar	Did you migrate? Your tweets says so! a) Dataset and details of the project will be shared by Rimjhim. b) **Mentor**: Rimjhim
6	Avinash kumar, Praveen Singh Dhaked, Vaibhav Sisodiya, Moolchandra Mridul	Overlapping Community Detection in Temporal Networks. a) Refer to paper "Autonomous overlapping community detection in temporal networks".
7	Arinjaya Khare, Saikat Sarkar	Identify trusted users on Higgs Twitter Network a) Refer to paper "A Tunable Mechanism for Identifying Trusted Nodes in Large Scale Distributed Networks" b) Use "Higgs Twitter Dataset"
8	Shinku, Abhishek Kumar	Identify scientific credibility of researchers a) Given a co-citation network, measure the scientific credibility. Identify research on Twitter who have many followers but a low credibility. b) Refer to paper "The Kardashian index: a measure of discrepant social media profile for scientists" c) Use ArnetMiner Dataset
9	Chandra Vadhan, Unnikrishnan A S, Karanam Mahidhar	Whom do we retweet? a) Refer to paper "Analyzing information sharing strategies of users in online social networks". b) Dataset would be provided by Roshni.
10	Sahil Mansoori, Suvom Das, Skand Gupta	What do we talk about in Social Media? a) Refer to paper "What we talk about when we talk about causality: Features of causal statements across large-scale social discourse. b) Dataset will be provided by Roshni.
11	T Chaithanya Reddy, Dhawal Gupta, K Ravinder	Identify Influencers in a Twitter network a) Refer to paper "Querying and Tracking Influencers in Social Streams." b) Dataset provided is 50000 tweets from Nepal Earthquake.
12	Rijul Dhir, Ashutosh Kumar, Ayush Mishra	Model the spreading behaviour of Scientific Rumour a) Given a list of interactions on Twitter, along with the timestamp, model the behaviour of rumour spreading. b) Refer SI model of disease spreading. c) Use "Higgs Twitter Dataset"
13	Kulkarni Malhar Sanjay, Ashutosh Dubey, Pedgaonkar R Shamsundar	Data-driven Answer Selection in Community QA Systems

		a) Refer to paper "Data-driven Answer Selection in Community QA Systems" b) Dataset will be provided by Shalini. c) **Mentor**: Shalini
14	Ashutosh Drolia, Anupam, Tarun Garg, Raghav Jindal	Identify scientific papers whose importance is not recognised for several years a) Refer to paper "Defining and identifying Sleeping Beauties in science" b) Use ArnetMiner Dataset
15	Aman Prakash, Awanish Das	Extraction of location from disaster related tweets: a) Given a set of tweets, devise a mechanism to detect whether there's any name of a location in that tweet. b) Dataset provided is 50000 tweets from Nepal Earthquake. c) The mechanism should use network related features and not knowledge bases. However, can use knowledge base at preliminary steps.
16	Swagarika Jaharlal Giri, Shivesh Kumar Roy, Suyash	Recommendation of Airlines a) Refer to paper "High Enough? Explaining and Predicting Traveler Satisfaction Using Airline Reviews" b) Dataset will be provided by Anita. c) **Mentor**: Anita
17	Saumajit Saha, Sunny Yadav, Chandan Kumar,	Classification of a particular tweet into broad topics like sports, entertainment, politics, personal. a) Dataset would be provided by Roshni. b) Preliminary knowledge would be given by mentors. c) **Mentor**: Roshni
18	Supriyo Mandal, Sourajit Behera, Anurag Choubey	Prediction of Trend in Stock Markets a) Dataset already available with Supriyo