BI-Fest-2019

... Where Learning is a Celebration ...

Course: ‘Business Intelligence’
Poster Presentations

(50+ students will present 10+ course projects as posters)

on

25th April, 2019

at
Department of Information Technology
IGDTUW

Background

Students of second year (4th Semester) in their Master of Computer Applications (MCA) programme at Indira Gandhi Delhi Technical University for Women (IGDTUW) did a course on 'Business Intelligence' under the course instructor, Mr. Rishabh Kaushal, Assistant Professor during Jan – April, 2019. In the course, students were expected to do a course project, which they shall demonstrate as poster presentations. Tentative list of projects below.

Team-Wise List of Projects

Team 1

Title: Analysis and Prediction of Ground Water Level in India

Team Members: Rashi Aggarwal (33), Pallavi Maurya (02), Lavannya Goyal (04), Megha Agrawal (03), Jaspreet Kaur (11)

Description: Since India has varying water resources, rainfall, and a large population that consumes water, this project uses a state wise groundwater level dataset to analyse existing patterns and trends and predict ground water level in the future which can help to better allocate water tanks to different areas.

Team 2

Title: Visualization of the Terrorism in India

Team Members:Anchal Hora (5), Divya Rani (17), Sonal Rawat (19), Asmita Bari (15)

Description: This project works on a subset of the Global Terrorism Database, i.e. the data that pertains to India. The goal is to perform various visualizations of terrorist activities in India over the years and draw useful inferences.

Team 3

Title:Human Posture and Movement Recognition

Team Members: Koshima (06), Pragya (10), Palak (18), Jaspreet (21), Nikita (22), Deewanshi (30), Khushboo (53)

Description:This project aims to monitor a person's body using readings from 4 accelerometers and identify the body posture and movements such as sitting, sitting down, standing, standing up and walking so that it can be further used to differentiate between correct and incorrect postures.

Team 4

Title: SMS SPAM FILTERING USING VARIOUS MACHINE LEARNING ALGORITHMS

Team Members:Srishti Maheshwari (32),Shubhangi Aggarwal (28), Anviksha Dixit (48), Madhurima Handa (31), Rishika Bhatia (34),Tanya Chawla (35)

Description: In this project, a SPAM/HAM dataset is processed to derive various features from the text. Classification models are then applied on these features to determine if an SMS message is SPAM or HAM.

Team 5

Title: Automated Essay Scoring

Team Members: Tanvi(55), Eesha(36), Akshita(14), Angela(40), Shivani Bakshi(26), Paridhi(24)

Description: This project aims to build a machine learning system for automatic scoring of essays written by students so as to reduce the workload of teachers and also giving an unbiased score.

Team 6

Title: Handwriting Detector

Team Members: Saizel(25), Bhavna(59), Akanksha(09), Mrinal(16), Ashna(23), Akriti(59)

Description: This project aims to build a handwriting detector model which will detect a sample handwriting and find its corresponding author. In other words, classification of the given handwritten character is done by its writer.

Team 7
Title: Crime Rate Detection over Kidnapping
Team Members: Aishwarya(45), Jyotsna(46), Minakshi(49), Bhawna(52)
Description: In this project, they have a state-wise kidnapping dataset from 2001 to 2012 on basis of which they will be studying the common crime patterns, what are the reasons of kidnapping, which gender is more affected by which type of kidnapping etc. On basis of the training and patterns generated they will be predicting the most probable reason of kidnapping state-wise for the next few years so that more focus can be given to that particular reason in every state.

Team 8
Title: Demand Prediction of Bicycle Sharing System
Team Members: Rubaina (08), Surbhi (12), Vidhi (20), Aditi Aggarwal (27), Akanksha Jain (29)
Description: In this project, Bicycle sharing systems, it is important to analyze the future demand for bicycles so that it will be available as per the user demand. For this weather conditions, seasons and holidays that can impact the demand of the cycle at a particular station are studied. On the basis of previous usage record and current factors that can affect the demand, Machine learning algorithms are used to predict the bicycle demand.

Team 9
Title: Forecasting suicides for allocating counselors
Team Members: Ashita (37), Abha (47)
Description:
This project aims to study and analyze the annual suicide rate data of each state in India from the year 2001 to 2012, and in turn, will help in predicting suicides in a particular state based on past records and study different factors which led to the suicides.

Team 10
Title: Depression Sentiment Analysis using Twitter
Team Members: Kritika (38), Lidiya (44), Aarti (54), Gunika (56), Tripti (57)
Description:This project aims to propose an automated system that can identify at-risk users from their public social media activity, more specifically, from Twitter. For this, we use Twitter tweets dataset and determine prominent features of a depressed tweet.

Team 11
Title: Predicting Graduate Admissions
Team Members: Sakshi Vij (39), Sakshi Kukreja (41), Shivani Bhatt (42)
Description: In this project, a Predicting Graduate Admission dataset is processed to predict whether a student can get admission based on the seats available. On admission portal, students fill in their details with the test scores, research interests, and other information. Then reviewers evaluate the applications and score them accordingly which is a long process. Thus a machine learning algorithm is used to calculate their scores.

Team 12
Title: Stock Market Analysis
Team Members: Yachana Saini(01), Shivani(07)
Description: In this project, they are studying the patterns of 3 stocks namely Tesla, Ford and GM. On the basis of training data, they will be predicting the future stock behavior.

Sponsorship

Support either in form of money or kind in one or more of the following would be gladly accepted and acknowledged.

1. T-shirts @ ~ Rs 250 per head for 60 students = Rs 15,000/-

2. Refreshments @ ~ Rs 100 per head for 60 students = Rs 6,000/-

3. Publicity material – poster & banner & certificate printing = Rs 3,000/-

4. Student badges and stationary kit @ ~ Rs 100 per head for 60 students = Rs 6,000/-

5. Best posters (top three), prizes of Rs 5,000/-, 3,000/- & 2,000/- = Rs 10,000/-

Total finances = Rs 40,000/-