A. List of Product Developed:

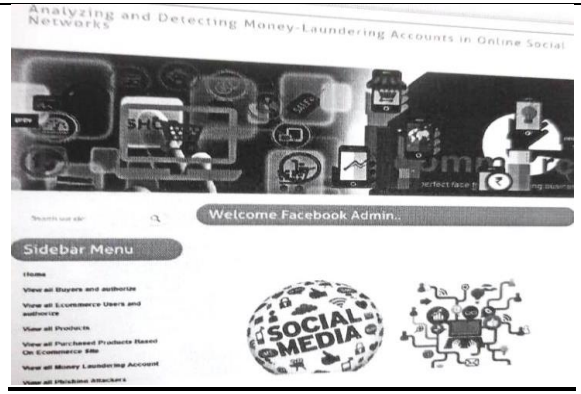
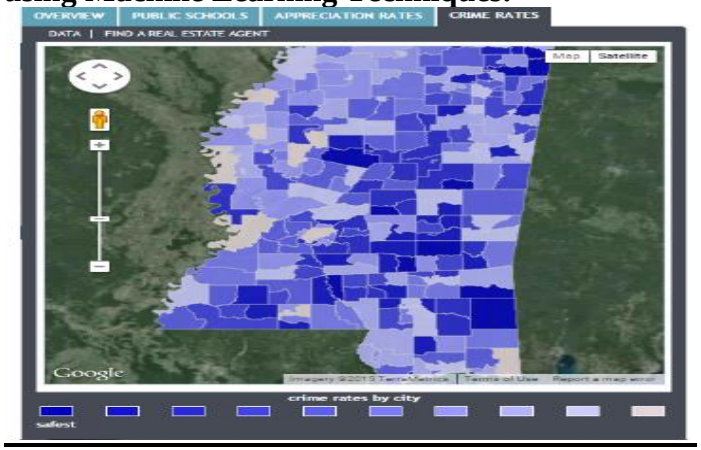
The department has many Product models created by students and has been displayed in research Laboratory. This prototype models helps the students to understand the working of basics and recent technologies in a better manner. Also, this can be used for better teaching and learning process.

ACADEMIC YEAR: 2020-21

Sl. No.	Name of the Faculty	Title of the Product developed/ still in incubation	Total cost	Collaborated agencies	No of faculty /student involved	Remarks
1.	M.Rama Raju	Use of artificial neural networks to identify fake profiles	4500	ByteXL	5	Paper Published.
2.	G.Rama Rao	Analyzing and Detecting Money-Laundering Accounts in Online Social Networks	4500	ByteXL	5	Paper Published.
3.	G.Komala	Privacy and Preserving of Crime Data Analysis using Machine Learning Techniques	4000	ByteXL	5	Paper Published.

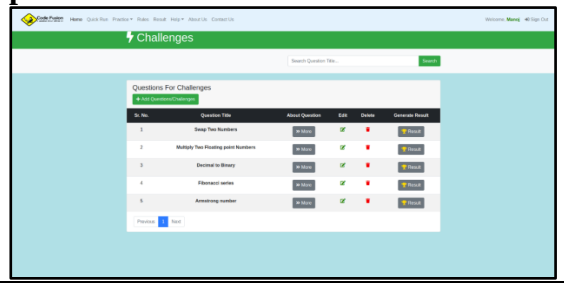
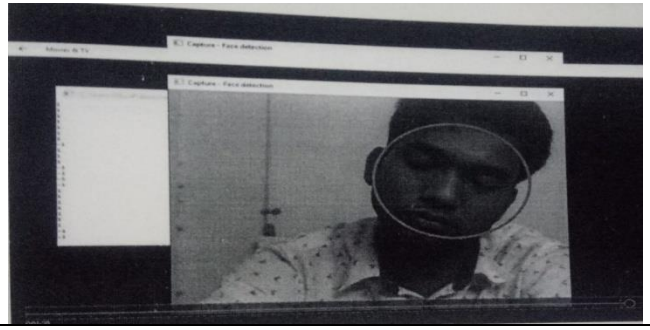
Photos:

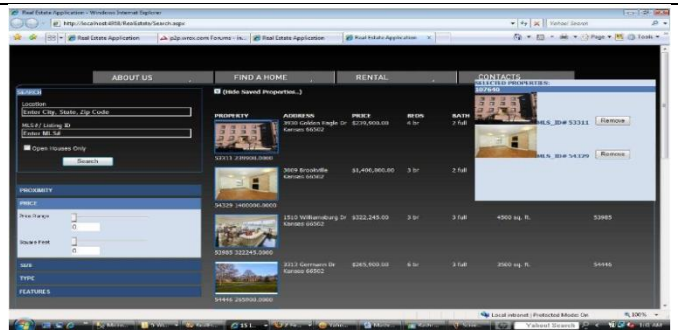
S. No.	Name of the Project	Description
	Android App For Department Floor Lighting: 	• Identifying whether given account details are from genuine o fake users. **ANN algorithm** will be trained with all previous users fake and genuine account data and then whenever we gave new test data then that ANN train model will be applied on new test data to identify whether given new account details are from genuine or fake users. • To train ANN algorithm we are using below details from social networks Account_Age, Gender, User_Age, Link_Desc, Status_Count, Friend_Count, Location, Location_IP, Status
	Analyzing and Detecting Money-Laundering Accounts in Online Social Networks:	• Virtual currency in OSNs plays an increasingly important role in supporting various financial activities such as currency exchange, online shopping, and paid games. Users usually purchase virtual currency using real currency. This fact

		motivates attackers to instrument an army of accounts to collect virtual currency unethically or illegally with no or very low cost and then launder the collected virtual money for massive profit. Such attacks not only introduce significant financial loss of victim users, but also harm the viability of the ecosystem. It is therefore of central importance to detect malicious OSN accounts that engage in laundering virtual currency. To this end, we extensively study the behavior of both malicious and benign accounts based on operation data collected from Tencent QQ, one of the largest OSNs in the world. Then, we devise multi-faceted features that characterize accounts from three aspects: account viability, transaction sequences, and spatial correlation among accounts. Finally, we propose a detection method by integrating these features using a statistical classifier, which can achieve a high detection rate of 94.2 percent at a very low false positive rate of 0.97 percent.
	Privacy and Preserving of Crime Data Analysis using Machine Learning Techniques: 	• Data mining and machine learning have become a vital part of crime detection and prevention. In this research, we use WEKA, an open source data mining software, to conduct a comparative study between the violent crime patterns from the Communities and Crime Unnormalized Dataset provided by the University of California-Irvine repository and actual crime statistical data for the state of Mississippi that has been provided by neighborhoodscout.com. We implemented the Linear Regression, Additive Regression, and Decision Stump algorithms using the same finite set of features, on the Communities and Crime Dataset. Overall, the linear regression algorithm performed the best among the three selected algorithms. The scope of this project is to prove how effective and accurate the machine learning algorithms used in data mining analysis can be at predicting violent crime patterns.

ACADEMIC YEAR: 2019-20

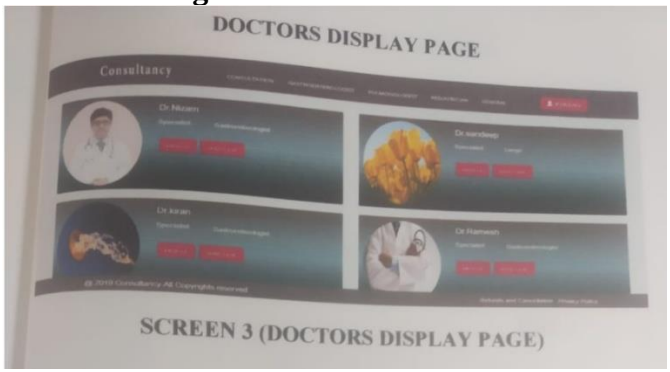
Sl. No.	Name of the Faculty	Title of the Product developed/ still in incubation	Total cost	Collaborated agencies	No of faculty /student involved	Remarks
1.	M.Rama Raju	Code fusion – cloud compiler and programming competition	5500	ByteXL	4	Paper Published.
2.	S.Vijaya Laxmi	Drivers drowsiness detection	4500	ByteXL	3	Paper Published.
3.	A.Soumya	Online web based Real estate property dwelling	4000	ByteXL	5	Paper Published.

S. No.	Name of the Project	Description
1	**Code fusion – cloud compiler and programming competition:** 	• To develop a compiler that supports multiple programming languages to compile, run and debug code and conduct online programming competitions • This compiler can be easily implemented in simple computer and they can be even accessed with mobile phones • Aims to develop a compiler which helps to reduce the problems of portability and storage space
2	**Drivers drowsiness detection:** 	Driver drowsiness detection is **a car safety technology which helps prevent accidents caused by the driver getting drowsy**. Various studies have suggested that around 20% of all road accidents are fatigue-related, up to 50% on certain roads.
3	**Online web based Real estate property dwelling:**	• There are hundreds of Real Estate Websites on the World Wide

		Web but the intention of designing this application is to develop something new, innovative and efficient using latest technologies to enhance the already existing search features available on the internet. • The main emphasis lies in providing a user-friendly search engine for effectively showing the desired results on the GUI.

ACADEMIC YEAR: 2018-19

Sl. No.	Name of the Faculty	Title of the Product developed/ still in incubation	Total cost	Collaborated agencies	No of faculty /student involved	Remarks
1.	S. Vijaya Laxmi	Online Consultancy Scheduling with Multi-Doctor Sharing Resource	5500	ByteXL	4	Paper Published.
2.	N.Uma Rani	Sentinent Analyzer of Social Media	4500	ByteXL	4	Paper Published.

S. No.	Name of the Project	Description
1	**Online Consultancy Scheduling with Multi-Doctor Sharing Resource:** 	• In an outpatient department of general hospitals, several doctors practice simultaneously. While individual doctors have their own patient panel and work independently, they share common resources such as space, personnel and equipments. In such settings, designing an optimal scheme to manage patient flow, e.g. appointment scheduling, requires to consider patient flows for all doctors instead of focusing on a single doctor. This paper examines an appointment scheduling problem for an outpatient unit where multiple doctors practice independently yet sharing common resources. An ophthalmology department of a large-scale general hospital in Korea is modeled in discrete event simulation. Our experimental results show that under multiple-doctor and resource-sharing environment, collection of the

		seemingly optimal appointment rules for individual doctors does not lead to optimal performance for the system. It implies that altering a patient flow, especially modifying the scheduling rule, should consider the interdependence effects within the system.
2	**Sentiment Analyzer of Social Media:** 	• Sentiment analysis, the automated extraction of expressions of positive or negative attitudes from text has received considerable attention from researchers during the past decade. In addition, the popularity of internet users has been growing fast parallel to emerging technologies; that actively use online review sites, social networks and personal blogs to express their opinions. They harbor positive and negative attitudes about people, organizations, places, events, and ideas. The tools provided by natural language processing and machine learning along with other approaches to work with large volumes of text, makes it possible to begin extracting sentiments from social media. In this paper we discuss some of the challenges in sentiment extraction, some of the approaches that have been taken to address these challenges and our approach that analyses sentiments from Twitter social media which gives the output beyond just the polarity but use those polarities in product profiling, trend analysis and forecasting. Promising results has shown that the approach can be further developed to cater business environment needs through sentiment analysis in social media.

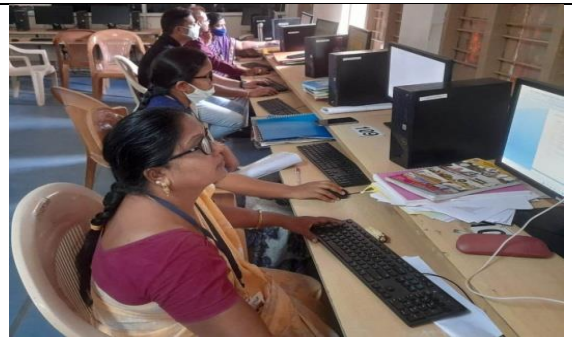
B. List of Facilities in Research Laboratory:

Academic Year 2020-2021

Room No	Area
105	156.07 sq m

Research Lab Incharge Details:	**Research Co-Ordinator Details:**
Name: Dr. P.U.Anitha Designation: Assistant Professor Qualification**:** M.Tech, Ph.D Exp: 17 years	Name: N.Hari Priya Designation: Assistant Professor Qualification: M.Tech Exp: 10 Years

Research Lab Photos:

ACADEMIC YEAR 2020-2021

S. No.	Name of the facility	Specifications	Quantity	Remarks
1	Desktop	Dell Vostro 3681 core i3 processor 10th Generation/8GB RAM 1TB HDD 20" Inch LED	40	Project works, Research Paper Work, Ph.D Work
2	Canon Printer 2900	Approx. 5.7 kg excluding cartridge Front Tray: A4, B5, A5, LGL, LTR, Executive, Envelope C5/COM10/ DL, Monarch, Manual Tray: Custom Paper (Width: 76.2 - 215.9 mm; Length: 127 - 355.6 mm)	1	Printouts for Research work and Faculty paper publications
3	Air Conditioners	LG 1.5 Ton 3 Star Window AC (LWA5CT3A) price in India starts from ₹ 28,500. The lowest price of LG 1.5 Ton 3 Star Window AC (LWA5CT3A)	4	To maintain the temperature, air distribution and humidity in Lab.
4	Keyboards	CN 08017N-PRCOO-1C3-A44I-A05 Wired Keyboard	40	Used by Student and Faculty for Research Work.
5	Mouse	DELL		Used by Student and Faculty for Research Work.
6	Software's	Anaconda, XAMMP, JDK 11, Selenium Testing Tool, VMWare Work Station, NS-2 Simulation Tool, Cloud Simulator tools, Arduino, Ms-Office, Windows 10, Turbo C, C++, MySQL, Linux, Mozilla Browser, Internet Explorer Browser, Google Chrome Adobe Flash Player,.	18	To Carry out Student Projects and Faculty Research Work.
7	Wi-Fi	BSNL: 500Mbps, Airtel: 500Mbps	2	To Carry out Student Projects and Faculty Research Work.
8	LCD Projector	Dell/In-focus LCD Projector	2	Used by Faculty for Project Explanation

FACULTY PURSUING Ph.D

ACADEMIC YEAR 2020-21

S. No.	Name of the Faculty Name	University	Year of Admission	Work Carried Out	Paper Title	Journal / Conference
1.	P.U. Anitha	JNTU, Hyderabad	2011	Paper Published in Scopus Journal.	Email Spam Filtering Using Machine Learning Based Xgboost Classifier Method",	Turkish Journal of Computer and Mathematics Education, Vol.12 No.11, 2182-2190, 2021. Vol.12 No.11 (2021), 2182-2190
2.	BV Pranay Kumar	Kakatiya University	2017	Paper Published in UGC Journal	Deep Learning Model for Financial Time Series Prediction	IJETIR, ISSN No: 2583-0554, Volume 2, Issue 1, September 2020
3.	M. Rama Raju	Osmania University	2018	Paper Published in UGC Journal	A User Centric Machine Learning Framework for Cyber Security Operation Center	IJRSCAMT, ISSN No: 2582-8045, Vol-2 /Aug-20
4.	A. Sowmya	IIT , Hyderabad	2021	Paper Published in UGC Journal	Crypto Currency Price Analysis with Artificial Intelligence	IJARSCT, ISSN No: 581-9429, Volume 2, Issue 2, February 2021
5.	A. V. Vamshi Krishna	Chaitanya (Deemed To Be University), Warangal.	2021	Literature Survey	--	--

ACADEMIC YEAR 2019-20

S. No.	Name of the Faculty Name	University	Year of Admission	Work Carried Out	Paper Title	Journal / Conference
1.	P.U. Anitha	JNTU, Hyderabad	2011	Experiments Carried out on various data sets using different machine learning algorithms		
2.	BV Pranay Kumar	Kakatiya University	2017	Paper Published in UGC Journal	ML & DL Techniques for Sentinent Analysis-A Comparative Study.	IJARSCT, ISSN No: 2581-9429, Vol-8 , Issue 4 /AUG-19
3.	M. Rama Raju	Osmania University	2018	Paper Published in UGC Journal	Stress Detection in it Professionals by Image Processing and Machine Learning	IJETIR, ISSN No: 2583-0554, Vol-1 /AUG-19

ACADEMIC YEAR 2018-19

S. No.	Name of the Faculty Name	University	Year of Admission	Work Carried Out	Paper Title	Journal / Conference
1.	BV Pranay Kumar	Kakatiya University	2017	Paper Published in UGC Journal	A Study Of Sentiment Analysis Methods, Tools And Challenges.	Journal Of Architecture &Technology, ISSN No: 1006-7930, Volume XII, Issue I, 2020

2.	M. Rama Raju	Osmania University	2018	Paper Published in UGC Journal	A Survey Of Data Publishing Of Sensitive Information Through Proximity In Cloud Database System	Mukt Shabd Journal, ISSN No: 2347-3150, Volume IX, Issue I, JANUARY/2019
3.	M. Rama Raju	Osmania University	2018	Paper Published in UGC Journal	A Ruse Secluded Character Set For The Source	Journal Of Architecture & Technology, ISSN No : 1006-7930, Volume XI, Issue X, 2019

Project Lab Utilization:

The project lab is useful for the students to carry out Major and Mini Project Work.

Academic Year 2020-2021

Room No	Area
105	117 sq m

Project Lab Incharge Details:	**Project Co-Ordinator Details:**
Name: B.V.Pranay Kumar Designation: Associate Professor Qualification**:** M.Tech,(Ph.D) Exp: 20 years	Name: S.Vijaya Laxmi Designation: Assistant Professor Qualification: M.Tech Exp: 14 Years

S. No.	Name of the facility	Specifications	Quantity	Remarks
1	Desktop	ACER, 3681 core i3 processor 10th Generation/8GB RAM 1TB HDD 20" Inch LED	60	Project works, Research Paper Work, Ph.D Work
2	Canon Printer 2900	Approx. 5.7 kg excluding cartridge Front Tray: A4, B5, A5, LGL, LTR, Executive, Envelope C5/COM10/ DL, Monarch, Manual Tray: Custom Paper (Width: 76.2 - 215.9 mm; Length: 127 - 355.6 mm)	1	Printouts for Research work and Faculty paper publications
3	Air Conditioners	LG 1.5 Ton 3 Star Window AC (LWA5CT3A) price in India starts from ₹ 28,500. The lowest price of LG 1.5 Ton 3 Star Window AC (LWA5CT3A)	4	To maintain the temperature, air distribution and humidity in Lab.
4	Keyboards	CN 08017N-PRCOO-1C3-A44I-A05 Wired Keyboard	40	Used by Student and Faculty for Research Work.
5	Mouse	DELL		Used by Student and Faculty for Research Work.
6	Software's	Anaconda, XAMMP, JDK 11, Selenium Testing Tool, VMWare Work Station, NS-2 Simulation Tool, Cloud Simulator tools, Arduino, Ms-Office, Windows 10, Turbo C, C++, MySQL, Linux, Mozilla Browser, Internet Explorer Browser, Google Chrome Adobe Flash Player,.	18	To Carry out Student Projects and Faculty Research Work.
7	Wi-Fi	BSNL: 500Mbps, Airtel: 500Mbps	2	To Carry out Student Projects and Faculty Research Work.
8	LCD Projector	Dell/In-focus LCD Projector	2	Used by Faculty for Project Explanation

Following are the best projects identified by the university examiners for last 3 AYs:

ACADEMIC YEAR 2020-21

Batch	Name of the Faculty	Project Title	Name of the Students	Award
Batch3	BV Pranay Kumar	Face mask detection using AI through Python	Adakula Kavitha, Appani Amulya, Katkuri Pranay kanth, Gujjula Krupa Rani, Jangiti Ramya	I Prize
Batch11	A.Soumya	Generating Wikipedia by summarizing long sequences	A.Sudheer, G.Poorvaja, A. A.Vyshali Ch.Shruthi, B.Vamshi Krishna	II Prize

ACADEMIC YEAR 2019-20

Batch	Name of the Faculty	Project Title	Name of the Students	Award
Batch4	S. Vijaya Laxmi	Drivers drowsiness detection		I Prize
Batch7	A. Poorna Chandra Reddy	Captains task		II Prize

ACADEMIC YEAR 2018-19

Batch	Name of the Faculty	Project Title	Name of the Students	Award
Batch4	S.Vijaya Laxmi	Online Consultancy Scheduling with Multi-Doctor Sharing Resource	T.Sameera Reddy, Ch.Bhargavi, S.Swathi, K.Joshua.	I Prize
Batch7	N. Uma Rani	Sentiment Analyzer of Social Media	G.Jayanthi, K.Anuasha,G.Sravya, B.Swathi	II Prize

C. List of Instructional Material Developed

ACADEMIC YEAR 2020-21

S. No.	Name of the faculty	Name of the Course	Theory/Lab	Targeted audience	Printed / online
1	Pranay Kumar BV	Compiler Design	Theory	III B.Tech CSE II Sem	Printed
2	P.U.Anitha	Compiler Design	Lab	III B.Tech CSE II Sem	Printed
3	P. Avaniketh	IT Workshop	Lab	II B.Tech CSE II Sem	Printed
4	Dr Ramesh Babu	Programming for Problem Solving	Lab	I Year II Sem	Printed
5	N. Hari Priya	Programming for Problem Solving	Theory	I Year II Sem	Printed
6	P U Anitha	Data Structures	Theory	II B.Tech CSE I Sem	Printed
7	P U Anitha	Data Structures	Lab	II B.Tech CSE I Sem	Printed
8	S Vijay Laxmi	OOP using C++	Theory	II B.Tech CSE I Sem	Printed
9	S Vijay Laxmi	OOP using C++	Lab	II B.Tech CSE I Sem	Printed
10	Ch.Raju	Database Management System	Theory	II B.Tech CSE II Sem	Printed
11	Ch.Raju	Database Management System	Theory	II B.Tech CSE II Sem	Printed
12	M. Ramaraju	Java Programming	Lab	II B.Tech CSE II Sem	Printed
13	J.Purna Prakash	Operating systems	Theory	II B.Tech CSE II Sem	Printed
14	J.Purna Prakash	Operating systems	Lab	II B.Tech CSE II Sem	Printed
15	P. Madhavi	Computer Networks and Web Technologies	Theory	III B.Tech CSE I Sem	Printed

16	P. Madhavi	Computer Networks and Web Technologies	Lab	III B.Tech CSE I Sem	Printed
17	G Rama Rao	Software Engineering	Theory	II B.Tech CSE I Sem	Printed
18	G Rama Rao	Software Engineering	Lab	II B.Tech CSE I Sem	Printed
19	A Vamshi Krishna	Machine Learning	Theory	III B.Tech CSE II Sem	Printed
20	P.U.Anitha	Machine Learning	Lab	III B.Tech CSE II Sem	Printed
21	D Suman	Scripting Languages	Theory	III B.Tech CSE II Sem	Printed
22	D Suman	Scripting Languages	Lab	III B.Tech CSE II Sem	Printed
23	G Rama Rao	Software Testing Methodologies	Theory	III B.Tech CSE II Sem	Printed
24	G Rama Rao	Software Testing Methodologies	Lab	III B.Tech CSE II Sem	Printed
25	N.Shiva Kumar	Data Analysis and Algorithms	Theory	III B.Tech CSE II Sem	Printed
26	A.Soumya	Software Project and Process Management	Theory	IV B.Tech CSE I Sem	Printed
27	S. Vijaya Laxmi	Data Mining	Theory	IV B.Tech CSE I Sem	Printed
28	M Naresh	Cryptography and Network Security	Theory	IV B.Tech CSE I Sem	Printed
29	M Naresh	Cryptography and Network Security	Lab	IV B.Tech CSE I Sem	Printed
30	N. Hari Priya	Distributed Systems	Theory	IV B.Tech CSE II Sem	Printed

ACADEMIC YEAR 2019-20

S.No.	Name of the faculty	Name of the Course	Theory/Lab	Targeted audience	Printed / online

1	Pranay Kumar BV	Compiler Design	Theory	III B.Tech CSE II Sem	Printed
2	G.Komala	Compiler Design	Lab	III B.Tech CSE II Sem	Printed
3	P. Avaniketh	IT Workshop	Lab	II B.Tech CSE II Sem	Printed
4	P.Renuka	Programming for Problem Solving	Lab	I Year II Sem	Printed
5	Ch. Prudvini	Programming for Problem Solving	Theory	I Year II Sem	Printed
6	N.Uma Rani	Data Structures	Theory	II B.Tech CSE I Sem	Printed
7	N.Uma Rani	Data Structures	Lab	II B.Tech CSE I Sem	Printed
8	S Vijay Laxmi	OOP using C++	Theory	II B.Tech CSE I Sem	Printed
9	S Vijay Laxmi	OOP using C++	Lab	II B.Tech CSE I Sem	Printed
10	Ch.Raju	Database Management System	Theory	II B.Tech CSE II Sem	Printed
11	Ch.Raju	Database Management System	Theory	II B.Tech CSE II Sem	Printed
12	M. Ramaraju	Java Programming	Lab	II B.Tech CSE II Sem	Printed
13	A.Soumya	Operating systems	Theory	II B.Tech CSE II Sem	Printed
14	A.Soumya	Operating systems	Lab	II B.Tech CSE II Sem	Printed
15	K.Mamatha	Computer Networks and Web Technologies	Theory	III B.Tech CSE I Sem	Printed
16	K.Mamatha	Computer Networks and Web Technologies	Lab	III B.Tech CSE I Sem	Printed
17	G Rama Rao	Software Engineering	Theory	II B.Tech CSE I Sem	Printed
18	G Rama Rao	Software Engineering	Lab	II B.Tech CSE I Sem	Printed

19	M.Ramaraju	Machine Learning	Theory	III B.Tech CSE II Sem	Printed
20	G. Anitha	Machine Learning	Lab	III B.Tech CSE II Sem	Printed
21	Y.Ganesh	Scripting Languages	Theory	III B.Tech CSE II Sem	Printed
22	Y.Ganesh	Scripting Languages	Lab	III B.Tech CSE II Sem	Printed
23	G Rama Rao	Software Testing Methodologies	Theory	III B.Tech CSE II Sem	Printed
24	G Rama Rao	Software Testing Methodologies	Lab	III B.Tech CSE II Sem	Printed
25	A.Poorna Chandra Reddy	Data Analysis and Algorithms	Theory	III B.Tech CSE II Sem	Printed
26	A.Soumya	Software Project and Process Management	Theory	IV B.Tech CSE I Sem	Printed
27	S. Vijaya Laxmi	Data Mining	Theory	IV B.Tech CSE I Sem	Printed
28	M Naresh	Cryptography and Network Security	Theory	IV B.Tech CSE I Sem	Printed
29	M Naresh	Cryptography and Network Security	Lab	IV B.Tech CSE I Sem	Printed
30	Ch. Saritha	Distributed Systems	Theory	IV B.Tech CSE II Sem	Printed

ACADEMIC YEAR 2018-19

S.No.	Name of the faculty	Name of the Course	Theory/Lab	Targeted audience	Printed / online
1	Pranay Kumar BV	Compiler Design	Theory	III B.Tech CSE II Sem	Printed
2	A.Poorna Chandra Reddy	Compiler Design	Lab	III B.Tech CSE II Sem	Printed
3	P. Avaniketh	IT Workshop	Lab	II B.Tech CSE II Sem	Printed
4	J.Purna Praksh	Programming for Problem Solving	Lab	I Year II Sem	Printed

5	A.Soumya	Programming for Problem Solving	Theory	I Year II Sem	Printed
6	K. Raja Shekhar	Data Structures	Theory	II B.Tech CSE I Sem	Printed
7	K. Raja Shekhar	Data Structures	Lab	II B.Tech CSE I Sem	Printed
8	S Vijay Laxmi	OOP using C++	Theory	II B.Tech CSE I Sem	Printed
9	S Vijay Laxmi	OOP using C++	Lab	II B.Tech CSE I Sem	Printed
10	Ch.Raju	Database Management System	Theory	II B.Tech CSE II Sem	Printed
11	Ch.Raju	Database Management System	Theory	II B.Tech CSE II Sem	Printed
12	M. Ramaraju	Java Programming	Lab	II B.Tech CSE II Sem	Printed
13	P. Madhavi	Operating systems	Theory	II B.Tech CSE II Sem	Printed
14	P. Madhavi	Operating systems	Lab	II B.Tech CSE II Sem	Printed
15	N. Chandrakala	Computer Networks and Web Technologies	Theory	III B.Tech CSE I Sem	Printed
16	N. Chandrakala	Computer Networks and Web Technologies	Lab	III B.Tech CSE I Sem	Printed
17	G Rama Rao	Software Engineering	Theory	II B.Tech CSE I Sem	Printed
18	G Rama Rao	Software Engineering	Lab	II B.Tech CSE I Sem	Printed
19	M.Ramaraju	Computer Graphics	Theory	III B.Tech CSE II Sem	Printed
20	N. Uma Rani	Computer Graphics	Lab	III B.Tech CSE II Sem	Printed
21	Y.Ganesh	Scripting Languages	Theory	III B.Tech CSE II Sem	Printed

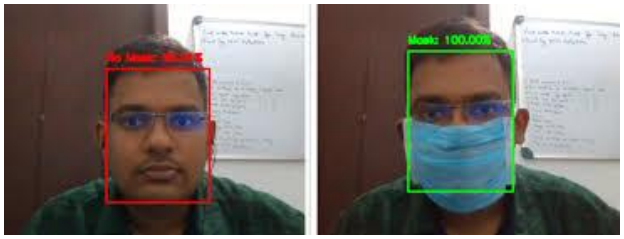
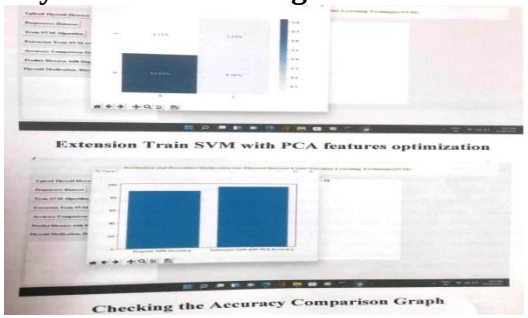
22	Y.Ganesh	Scripting Languages	Lab	III B.Tech CSE II Sem	Printed
23	G Rama Rao	Software Testing Methodologies	Theory	III B.Tech CSE II Sem	Printed
24	G Rama Rao	Software Testing Methodologies	Lab	III B.Tech CSE II Sem	Printed
25	E. Madhu	Data Analysis and Algorithms	Theory	III B.Tech CSE II Sem	Printed
26	A.Soumya	Software Project and Process Management	Theory	IV B.Tech CSE I Sem	Printed
27	S. Vijaya Laxmi	Data Mining	Theory	IV B.Tech CSE I Sem	Printed
28	M Naresh	Cryptography and Network Security	Theory	IV B.Tech CSE I Sem	Printed
29	M Naresh	Cryptography and Network Security	Lab	IV B.Tech CSE I Sem	Printed
30	K. Prithi	Distributed Systems	Theory	IV B.Tech CSE II Sem	Printed

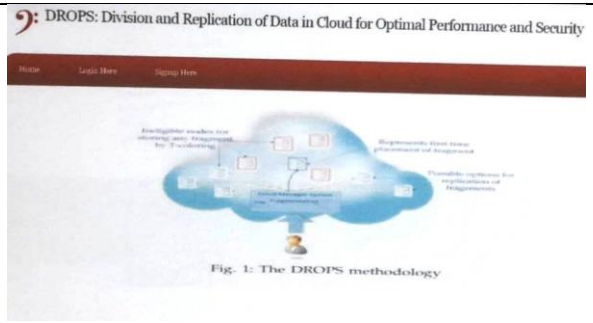
D. List of Working Models

ACADEMIC YEAR 2020-21

Sl. No.	Name of the Faculty	Title of the Working models	Total cost	Collaborated agencies	No of faculty /student involved
1	BV Pranay Kumar	Face mask detection using AI through Python	5000	BYTEXL	Adakula Kavitha, Appani Amulya, Katkuri Pranay kanth, Gujjula Krupa Rani, Jangiti Ramya

2	G.Komala	Prediction And Providing Medication For Thyroid Disease Using ML	4000	BYTEXL	B.Aravind, B.Ravali, J.Thulasi, J.Lalitha
3	M.Ramaraju	Drops Division And Replication Of Data In Cloud For Optimal Performance And Security	4500	BYTEXL	G. Bala Kishore Reddy, G. Kavya, G.Akhila

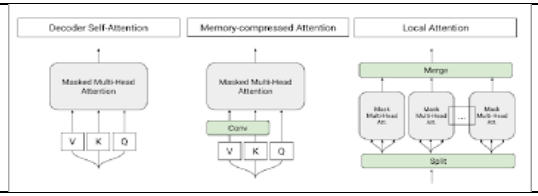
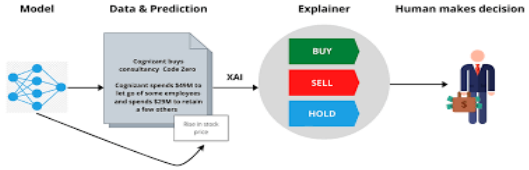
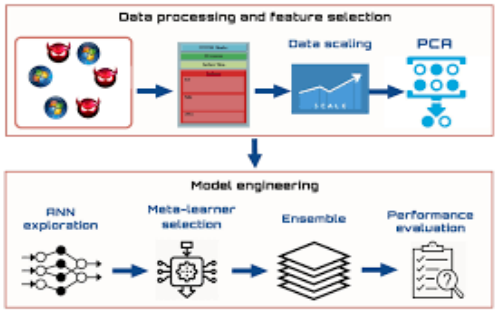
S. No	Name of the Working Model	Description
1	**Face mask detection using AI through Python** 	• The novel Corona virus had brought a new normal life in which the social distance and wearing of face masks plays a vital role in controlling the spread of virus. But most of the people are not wearing face masks in public a place which increases the spread of viruses. This may result in a serious problem of increased spreading. Hence to avoid such situations we have to scrutinize and make people aware of wearing face masks.
2	**Prediction And Providing Medication For Thyroid Disease Using ML** 	• The Thyroid gland is a vascular gland and one of the most important organs of a human body. This gland secretes two hormones which help in controlling the metabolism of the body. The two types of Thyroid disorders are Hyperthyroidism and Hypothyroidism. When this disorder occurs in the body, they release certain type of hormones into the body which imbalances the body's metabolism
3	**Drops Division And Replication Of Data In Cloud For Optimal Performance And Security**	• Outsourcing data to a third-party administrative control, as is done in cloud computing, gives rise to security concerns. The data compromise may occur

	 Fig. 1: The DROPS methodology	due to attacks by other users and nodes within the cloud. Therefore, high security measures are required to protect data within the cloud. However, the employed security strategy must also take into account the optimization of the data retrieval time. In this paper, we propose division and replication of data in the cloud for optimal performance and security (DROPS) that collectively approaches the security and performance issues

ACADEMIC YEAR 2019-20

S. No.	Name of the Faculty	Title of the Working models	Total cost	Collaborated agencies	No of faculty /student involved
1	A.Soumya	Generating Wikipedia By Summarizing Long Sequences	4000	BYTEXL	A.Sudheer,A.Vyshali, B.Vamshi Krishna G.Poorvaja
2	G.Rama Rao	Forward Forecast Of Stock Price Using Sliding Window	5000	BYTEXL	M.Abhigna Reddy, M.Sreenitha, N.Krishnaveni P.Nikhil Reddy
3	M.Naresh	Malware Detection Usning Ml And Performance Evaluation	3500	BYTEXL	Shahed Begum P.Raghu,S.Yeshwanth N.Shravya

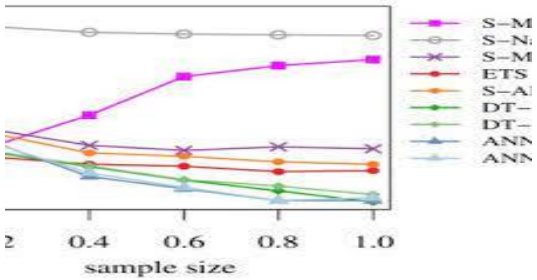
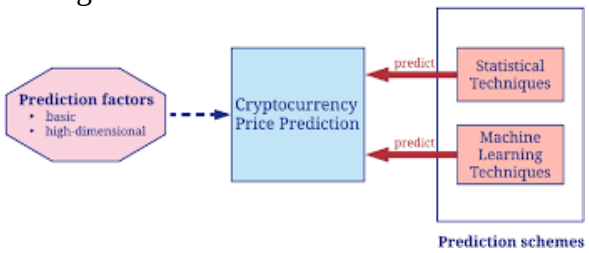
S. No.	Name of the Working Model	Description
1	Generating Wikipedia By Summarizing Long Sequences	• We introduce a decoder-only architecture that can scalably attend to very long sequences, much longer than typical encoder- decoder architectures used in sequence transduction. We show that this model can generate fluent, coherent multi-sentence paragraphs and even whole Wikipedia articles. When given reference documents,

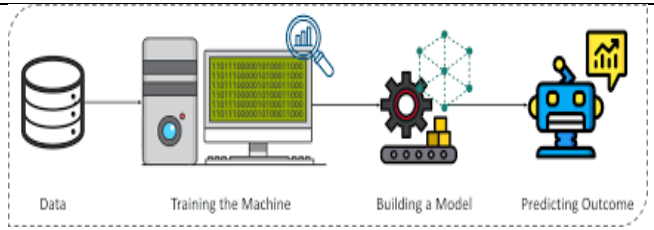
		we show it can extract relevant factual information as reflected in perplexity, ROUGE scores and human evaluations.
2	Forward Forecast Of Stock Price Using Sliding Window 	• The system has a graphical user interface and functions as a stand-alone application. The developed hybrid system exhibited outstanding prediction performance and it improves overall profit for investment performance. The proposed model is a promising predictive technique for highly nonlinear time series, whose patterns are difficult to capture by traditional models.
3	Malware Detection Using ML And Performance Evaluation 	• A versatile framework in which one can employ different machine learning algorithms to successfully distinguish between malware files and clean files, while aiming to minimise the number of false positives. In this paper we present the ideas behind our framework by working firstly with cascade one-sided perceptrons and secondly with cascade kernelized one-sided perceptrons. After having been successfully tested on medium-size datasets of malware and clean files, the ideas behind this framework were submitted to a scaling-up process that enable us to work with very large datasets of malware and clean files.

ACADEMIC YEAR 2018-19

S. No.	Name of the Faculty	Title of the Working models	Total cost	Collaborated agencies	No of faculty /student involved
1	K.Rajashekar	Application Of Database Prediction Methods In Newsvendor Problems Subject To Purchase Price Uncertainty	4000	KATE TECHNOLOGIES	A.Ajay B.Soujanya B.Swathi Ch.Sushmitha

2	CH.Raju	Crypto Currency Price Analysis Using Artificial Intelligence	3500	KATE TECHNOLOGIES	G.Mary Apurva G.Pramod G.Harika K.Rohith Bala
3	N.Uma Rani	Prediction Of House Pricing Using Machine Learning	3000	KATE TECHNOLOGIES	K.Reshma M.Tharun M.Ramya M.RAasi

S. No.	Name of the Working Model	Description
1	Application Of Database Prediction Methods In Newsvendor Problems Subject To Purchase Price Uncertainty 	• The novel approach is designed for the sale of new, innovative products, where it is quite complicated to define probabilities or even probability-like quantities, because there are no data available for forecasting the upcoming demand via statistical analysis. The new procedure described in the contribution is based on a hybrid of Hurwicz and Bayes decision rules. It takes into account the decision maker's attitude towards risk (measured by coefficients of optimism and pessimism) and the dispersion (asymmetry, range, frequency of extremes values) of payoffs connected with particular order quantities. It does not require any information about the probability distribution.
2	Crypto Currency Price Analysis Using Artificial Intelligence 	• The specific characteristics and high volatility of the crypto currency market, specific approaches have been proposed to forecast their prices. Proposed various LSTM and classical ANN architectures that take the price, ask, and bids time series as input to forecast long and short-term price, focusing on the price non-stationary dynamics of three crypto currencies (Bitcoin, Ethereum, Ripple). The obtained results demonstrate that applying the correct ANN architecture can learn long-term patterns, while LSTM tends to rely more on the short-term dynamics of time series
3	Prediction Of House Pricing Using Machine Learning	• House price forecasting is an important topic of real estate. The literature attempts to derive useful knowledge from historical data of



property markets. Machine learning techniques are applied to analyze historical property transactions in India to discover useful models for house buyers and sellers. Revealed is the high discrepancy between house prices in the most expensive and most affordable suburbs in the city of Mumbai.

Moreover, experiments demonstrate that the M