VASAVI COLLEGE OF ENGINEERING (Autonomous)
IBRAHIMBAGH, HYDERABAD – 500031
Department of Computer Science & Engineering

BEST PROJECTS

Name of the Student(s)	Project Title	Areas of Specialization	Project Supervisor (s)	Contribution/ Achievements/ Research Output
2022-23				
1602-19-733-013 DEEKSHA 1602-19-733-030 MONISHKA DAS	UnReal- A Deepfake Detection Algorithm	Deep Learning	Dr. M. Jitender Reddy	Unreal is a DeepFake Detection Model that aims to efficiently determine and authenticate whether an image has been fabricated or not with high accuracy. In this project, we aim to develop a deepfake detection method using custom CNNs and the Xception model. Our proposed method will analyze the visual features of images to detect signs of manipulation. Our proposed method has the potential to be an effective and reliable tool for detecting deepfake images, which can be used to combat the spread of misinformation and protect the integrity of digital media.
1602-19-733-173 UDAY KUMAR REDDY 1602-19-733-154 RAJESH REDDY N 1602-19-733-177 VEDANTH REDDY	Rate Control with Spatial Reuse for Wi-Fi 6 Dense Deployment	Computer Networks	T. Nishitha	This project is to study the impact of spatial reuse in Wi-Fi 6. The core objective of this study is to assess the performance of spatial reuse in residential scenarios, where network congestion is a common issue. To accomplish this, we utilized NS-3, a network simulation tool, to create a virtual environ-ment that replicates real-world conditions. Within this simulation, we rigorously tested the network's performance under three rate adaptation algorithms: constant rate, Minstrel HT, and Thompson sampling. We

				conclude that Thompson Sampling is giving better performance compared to Minstrel HT.
2021-22				
1602-18-733-097 SAI SUMAN CHITTURI 1602-18-733-116 PRANEETH KAPILA	Emotion aware Music Recommendation System	Data Mining	Dr. T. Adilakshmi	This project is to recommend music to the users based on their emotion. First phase of the project deals with identifying human emotion by using face recognition techniques. Second phase clusters the music based on the similarity and genre. The third phase also known as recommendation phase combines the first two phases and recommends te songs suitable to the emotion
1602-18-733-042 V SAI MATHUR 1602-18-733-026 CH. KRISHNA VAMSHI ANIRUDH	Change Impact Analysis Tool (with static & dynamic analysis)	Software Engineering	T Jalaja	This project proposes a Change Impact Analysis Tool (CIAT) that helps us to identify the impacted files, methods, fields, and elements that are affected because of the proposed changes. The CIAT takes a change ticket and project repositoryGitHub link as input. Then the tool does static analysis on the given repository and forms a data structure. This data structure contains all the details of the impacted elements. From the data structure, we display the information of affected files, methods, fields, and impacted line numbers in the files.
2020-21				
1602-17-733-061 CHEVELLA ABHILASH 1602-17-733-321 KARNATI PRAVEEN	Object Tracking System using Deepsort	Internet of Things	B Syamala	This Project is based on tracking of objects / people in crowd surveillance or any recorded videos using YOLOV4 and deepSORT. YOLOv4 is used to detect the objects and deepSORT is used to keep track of the movement of the detected objects. The movement of the

				object is tracked based on its trajectory even if the sensory input is lost. Subsequent frames and features of the objects are considered inorder to keep track of the objects.
1602-17-733-020 NITISHA KUTHATI 1602-17-733-009 HEMA SWATHI	A prediction approach for stock market volatility based on time series data	Data Mining	Dr. M.A. Wajeed	This project introduces the concept of time series analysis and forecasting in the perspective of the Indian economy. It tries to build an efficient ARIMA model to predict the Indian stock market volatility so as to safeguard the interest of the investors.
2019-20				
1602-16-733-306 KOTTA ABHISHEK REDDY 1602-16-733-307 JANNU UDAYKIRAN 1602-16-733-323 J.AJAY KUMAR (CSE-B)	Intelligent Traffic Light Control System	Image Processing	C. Gireesh	This project is useful to calculate traffic density and signal timing. Traffic density is calculated using the videos of CCTV and provide automatic signal timing. This reduces traffic, waiting time and fuel consumption. The execution time for this approach is relatively low, and it can be used in real-time applications.
1602-16-733-062 ABDUL KHALIQ 1602-16-733-095 Y. SAI GAURAV 1602-16-733-090 S. PRAVEEN KUMAR	Fake News Detection	Data Mining	Dr. Nagaratna P. Hegde	This project classifies the news that we give is a fake news or a real news using Latent Dirichlet's Allocation (LDA) Algorithm & K-Means Clustering Algorithm on a dataset with over 1000 news articles and has achieved a success rate of ~80% accuracy in determining the fake news
2018-19				
1602-15-733-083 OMAR HASAN MOHIUDDIN 1602-15-733-081 MOHD ABID UZAIR	Self – Learning AI for Duel of Wits Board Game	Machine Learning	S.Komal Kaur	Applied artificial Intelligence for board game techniques like nega max and alpha beta. The self learning approach using proximal policy optimization with a neural network as a function approximator.

1602-15-733-090 ANEGAMA RASHMIKA 1602-15-733-107 SREYA KUNEETY	Music Recommendation System with Item Based Collaborative Filtering	Data Mining	Dr. T. Adilakshmi	Developed an application for Music recommendation system by considering item correlations. Experimental results are obtained on a benchmark data set Last.fm