# Department of Information Technology

## Final Year Projects

The course intends to enable students to apply knowledge from different areas or courses, which they have studied in their curriculum using methods, tools, and techniques, which they learned to a real-world scenario. It allows students to apply their engineering knowledge and proficiencies (hard skills), and demonstrate their competence in generic, professional skills (soft skills). It also emphasizes the importance of life-long learning as a fundamental attribute of graduate engineers.

The projects undertaken in IT department range from research projects to applications catering to societal needs. Few of the novel applications are also filed for patent.

**Following is the list of academic projects year wise:**

**Academic Year 2022-23**
**Academic Year 2021-22**
**Academic Year 2020-21**
**Academic Year 2019-20**

# Department of Information Technology

## Academic Year 2022-23

Project Title:

1. Decentralized Marketplace for Farmers using Blockchain

2. DataViz: Augmented Insights Generation and Visualization Tool

3. Health harvest

4. Satellite Image Analysis and Crisis Management Support

5. Detecting price manipulations in stock market using Reinforcement Learning

6. Scene graph generator

7. Helping dyslexia patients through AR/VR

8. Heart rate monitoring using Edge Computing

9. Development of Breach attack simulation and security operations center

10. Decentralized property dealing system

11. Cataract detection using explainable AI

12. Player tracking and metric generation through AI & CV

13. Aggregation of online articles

14. Integrating distributed IoT based sensors into C3 (Central Command and Control application)

15. Wireless Biometric lock

16. Vioogle

17. Lung - disorders Classification and Detection from Chest X-ray using GANs

18. Web based system to support students with ASD (autism spectrum disorder)

19. Detecting Anomalies from surveillance videos

20. Cry Reason Detection

21. A Secure Platform for Crowdfunding through auctions using blockchain

22. Multilingual Processing of Native Indian Languages

23. Enhancing Recruitment Process using Explainable AI

24. Rural Health Tracker

25. AR based preschool phonics tutor

# Department of Information Technology

## Academic Year 2021-22

Project Title:

1. FitLife

2. Automated Database and API Management

3. Mall route generator

4. Gujrati Shikshak

5. Pro-Nuance: English Pronunciation Trainer

6. Visual Question Answering

7. Knowledge Based Recommendation system for web based learning

8. E-Learning Summarizer

9. Honest Grade

10. Note your Notes: A Music Trainer App

11. Unmute the muted

12. App for recording and storing medical history using blockchain

13. Football Analysis

14. Truly Scalable and Reusable SOA Services

15. Pallicare

16. Conversion of Indian Sign Language to Hindi Audio and Text

17. Restaurant Insights

18. Intelligent Virtual Assistant for computer commands

19. Smart living (Industry project)

20. Project Selection System

21. MyRoomie (Bachelor App)

22. Intelligent Devanagari Text Recognizer

23. Dance with AI

24. Real Estate Management

# Department of Information Technology

## Academic Year 2020-21

Project Title:

1. DeepFake

2. Automated and Adaptive Forex Trading

3. Insurance Fraud Detection System

4. Generation of Instrumental cover for songs

5. Smart Wardrobe

6. PhotoOCR

7. Decentralized Social Media

8. Real Time App for Blind

9. Intelligent Tutoring System

10. Generating story from a series of Images

11. MindMap Generator

12. Gesture to Voice

13. Automated Cricket Trainer

14. Aptitude Test for Visually and Hearing Impaired

15. Cryptocurrency Analyser and Predictor

16. Phishing Website Detection

17. Psychological Guidance

18. Improvised Learning for Hearing Disabled

19. Brain Wave Analysis

20. Shoplifting: Prevention and Inventory Tracking

21. Children Chat App

22. Text Predictor

23. Retinopathy

24. Vision and Language Navigation

25. Motor Skills Development

# Department of Information Technology

## Academic Year 2019-20

Project Title:

1. Content based Search Engine for E-books

2. Orion: An Organic Programming Challenge

3. D-Dining

4. Detection and classification of Arrhythmia

5. Blockchain to Manage Medicine Supply Chain

6. Loyalty Program Using Blockchain

7. Real Estate Record Keeping

8. Smart Kitchen

9. Farm Direct

10. CareerInsights

11. Automated Technical Interview System

12. Smart Learning

13. Know Your Internal Potential (KYIP)

14. Online Shopping App for Visually Challenged

15. Smart Farming

16. Distributed P2P Storage Network

17. Financial Investment Recommendation and Decentralised A/c Management System

18. Learning Ecosystem for Dyslexic People

19. Fake News Detection

20. Power Level Classification and Relation Analysis

21. Face Generation

22. Post Disaster Management using Block-chain

23. Memorizing App for Alzheimer and Dementia Patient

24. SupAR

25. Voice and Gesture-based App for Blind people

26. Pool `Em Up

27. Detecting and Analyzing Stress Levels