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| **ISTE NITK Technical Projects 2017-18**  **Convener: Aniket Rege (14EC108)**  **Contact: aniketrg7@gmail.com** |
| **Project Name:  Vocal Suppression in Music**  Project Description:  The goal of this project was to use signal processing techniques to achieve separation of vocal tracks from background music. We made use of the fact that the background music in a song generally has a repeating structure and thus can be modeled easily, compared to the vocals.   Team Members:  Shashank V (15EC147) Nishtha Maloo (15EC125) Radhika Pai (15EE138) Sujay Simha (16EC148) Aneesh Dixit (16EC104)  Contact email: shashankvijayaranga@gmail.com |
| **Project Name:**  **Optical Eye Tracking Using OpenCV**  Project Description: The goal of this project was to develop a low-cost optical eye tracking system without any specialized hardware but with enough accuracy and precision for practical purposes. We further applied the eye tracking system we developed to create a drowsiness detector, assistive technology and experimental data visualization tools in order to demonstrate its functionality and usability.  Team members:  Shantanu Vijay (15EC145)  Apurva Purushotham (15EC105)  Aneesh Dixit (16EC104)  Gauri Barasker (16CO209)  Gayatri Indukumar (16EE218)  Sarang Kalantre (16EC222)  Siddhant Waghjale (16IT148)  Siddharth Kapoor (16EC142)  Stuti Ananta (16EC146)  Subiksha Prakash (16EC147)  Vasavi Udupa (16EC252)  Vishal Sinha (16EC254)  Contact Email: shantanu.vijay8@gmail.com |
| **Project Name:  Railway track crack detection using IR sensors.**  Project Description: The aim of this project was to locate cracks present in railway tracks and update the location on a website. Crack detection was done using 2 pairs of IR led-photodiode placed on either sides of rails.NodeMCU was used to connect to Adafruit's server and Adafruit IO was used to store and display the crack location in real time.  Team Members: Ashika Nayak-15EC107 Nisarga G- 15EC134 Ashwathy Gunadeep-15MT05 Joshua D'Cunha-16EC220 Sai Chaitanya Boddu- 16EC136 Abhijeet Ghosh- 16EE101 Chitransh Lodha -16EE154 Akshay Kishan CK -16EC102 Yendrapati Sai Venkata Sandeep -15EC156  Contact Email : ashikanayak98@gmail.com |
| **Project Name: Object detection and Face recognition**  Project description: Goal is to use the concept of Image Processing to 1. Detect objects 2. Individual identification in a crowd(can be used for attendance) 3. Security (alternative for fingerprint )  Project members: Hemanth(15EC120) Vishal(16EC254) Siddant(16IT148) Vasavi(16EC252) Chitransh(16EE154) Kshitiz (16EE225)  Contact email I'd: hemanthnbhv@gmail.com |
| **Project name: Design of Driveshaft**  Project description:  This project was a collaboration ISTE and NITKRacing with the objective being to design and improve the driveshaft currently in the FSAE NR-17, which would then be used for NR-I8, with the primary objective being weight reduction. There were certain constraints imposed on the driveshaft and we have tried to optimize the design.  Team members:  Ayam Jain 15ME119 Aditya Shah 16ME106 Kevin Tom Kurian 16ME135  Contact Email: ayam.jain@gmail.com |
| **Project name: Low cost housing for the poor**  Project Description: To analyse the needs of the poor people in various slums of India and to device a lost of cost effective and efficient construction materials and methods.  Team Members : Domnic 16CV113 Lasya 16CV217 Aditi 16CV202 Tejaswi 16CV242 Vignesh 15CV152 Rahul 16CV228  Contact Email : vigneshvinayakamurthy@gmail.com |
| **Project name: Marketing strategies of L’Oréal Paris**  Project description: To analyse 4P strategies of L’Oréal and to know how effective penetration it has in Indian market.  Team members:  Aakash S(15CV136), M Amith Kini(15IT216), AditiBhat(16CV202), Praneeth(15CH29) Divya(16EC214) Contact Email: aakashsatish97@gmail.com |
| **Project Name: Comeback Marketing Strategies**  Project Description: To analyze optimal strategies that giants in industries carried out in face of a PR disaster. Team Members:  Mohit Bharat Soni 15CH26 Vignesh Vinayaka Murthy 15CV152 Ian Jathanna 16CH10 Sai Chaitanya 16EC136 Rohith Fernando 16ME160  Contact Email: [mohit.soni281@gmail.com](mailto:mohit.soni281@gmail.com) |
| **Project Name: Predictive Analysis of the Co-existence of Organised and Unorganised Retail in the Indian Economy**  Project Description: Through this paper, we try to study the possibility of organized retail completely replacing unorganized retail and analyze the factors that determine the choice of retailer amongst consumers. Further, we attempt to suggest ways in which those currently involved in unorganized retail can improve their chances of holding their own in the market.  Team Members: Ashwin K V (16EE108) Chitransh Lodha (16EE154) Devika Suresh (15CV111) Shannon Gonsalves (15CH18)  Contact Email: thedevikasuresh@gmail.com |
| **Project name: Impacts of Banning the Slaughter of Cattle in India**  Project description: Based on the events of 2017, this project's purpose was to quantitatively analyze the impacts of a hypothetical ban on cattle slaughter in India. The analysis focused on economical impacts at various levels and environmental concerns as well as nutritional aspects in order to draw conclusions and make predictions.  Team members: Jessina Cherry (15CH19) Shantanu Vijay (15EC145)  Contact Email: shantanu.vijay8@gmail.com |
| **Project name: Investment Analytics**  Project description: To analyse the various asset classes available in the Indian market such as stocks , silver , gold , FD, PPF as well as assets gaining exposure such as commodities and pre ipo funds. Furthermore,  portfolios of varying volatility is prepared from these asset classes and analysed.  Team members:  Srijit Kumar 15ME271  S Vasuki 15MN34  Jessina Cherry 15CH19  Sushil Vanka 16EC149 Abhijeet Ghosh 16EE101 Siddhartha Kapoor 16EC142  Contact Email: srijitkumar18@gmail.com |
| **Project Name: Economic Impact of China Pakistan Economic Corridor**  Project Description: The project analysed the economic impact of CPEC on mainly 4 aspects: Agriculture, Cost-Benefit Analysis, Energy and Special Economic Zones. It highlighted the potential advantages and disadvantages for both Pakistan and China alongwith future prospects.  Team Members: Nihar Raichada (15IT132) Abhilekh Shrivastava (15IT102) Siddhant Waghjale (16IT148) Sarang Kalantre (16EC222) Hamra Nadeem (16CO222) Aditya Shah (16ME106)  Contact Email: raichada.nihar3@gmail.com |
| **Project Name: Comparative study of chat-bots**  Project Description: Developed 3 different chat-bots using AIML, DialogFlow and Regression followed by a comparison of the developed bots from a developers perspective.   Team Members: Ria Kulshrestha (15IT231) Yash Dodeja (16IT149) Nihar Chitnis (16IT232) Sidhanth Waghjale (16IT148) Sankarshan guru (16IT242)  Contact Email: ria.kulshrestha16@gmail.com |
| **Project Name: Interactive model using Augmented Reality**  Project Description: Project a 3d model on top of a target image and be able to interact with it Team Members :  Samarth -15IT236 Rupashi - 15EE239 Nihar Chitnis - 16IT232 Tanya -16EE249 Yash Dodeja- 16IT149 Mohit Bhasi - 16CO126 Vishal - 16EC254  Contact Email : samarth.m.gowda@gmail.com |
| **Project Name: Movie Recommendation System Using Facebook Data**  Project Description: Suggesting movies to users based on their Facebook profile using Machine Learning Algorithms and comparing their performances.  Team Members: Avanika B R (15CH09) Rajgauri Khemnar (15IT133) Suraj Hegde (15IT146) Yash Dodeja (16IT149) Darshan D V (16CO216) Tanya Pinto (16EE249) Nihar Chitnis (16IT232) Priyam Kumar (16CH21) Sankarshan guru (16IT242)  Contact Email: avanikabr@gmail.com |
| **Project Name: Sign Language Translator**  Project Description: Developing a Hand gesture recognition system for the American System of Sign Language, to aid the deaf and the mute people to converse naturally. The system was also interfaced as a REST service to be used as a API service from any platform of the user's choosing, this makes the project as a whole framework for the Sign Language Translation problem.  Team Members: Sushant Kumar[16CO143] Darshan D V[16CO216] Priyam Kumar[16CH21] Sidhanth Waghjale[16IT148] Rahul Ramesh[16CV228] Rahul Kumaresan[15IT131]  Contact email: kayrahul@gmail.com |
| **Project name: 3D Modeling of emojis**  Project Description: Modeling popular emojis/emoticons using professional software, Cinema4D and look for applications in animation and design.  Team Members : Praneeth Pichika 15CH29 Keerthana Kamath 16CH12 Aneesh Dixit 16EC104 Nihar Chitnis 16IT232  Contact Email : praneeth.p27@gmail.com |