

Department of Computer & Information Systems Engineering
 CS-406 Final Year Design Project
Project List



F/SOP/FYDP 02/03/00

Batch 2021

Semester Fall 2024

| S.No. | Project Title | Student Name | Supervisor/Co-Supervisor | Industry |
|-------|---|---|---|------------------------------|
| 1 | Link2Insight: AI-Driven Optimization Tool for Website Analysis and Strategic Enhancement | 1. Tehreem Faraz 2. Yusra Hassan 3. Syed Mallahim Ali 4. M Bilal Rehan | Dr. Maria Waqas | - |
| 2 | Egocentric Event Coverage: Automatic Highlighting and Summarization of Everyday Interactions using Audio-Visual Diarization | 1. Abdul Kareem 2. M. Ali Hasnain 3. M. Ashhad Jamal | Dr. Maria Waqas | - |
| 3 | Insightful Horizons: AI-Powered Predictive Analytics and Visualization for Business Growth | 1. Alishba Rizwan 2. Narmeen Shabaz 3. Yashal Ali Farooqui 4. Dahika Abdul Hafeez | Dr. Maria Waqas | Data and Dashboards Ltd |
| 4 | Facial Reconstruction from Text: A GAN-Based Approach to HD Image Generation | 1. Maaz Bin Tariq 2. Rayyan Sajid 3. Uzma Sohail 4. Waliya Noor | Dr. Maria Waqas | Isplendid Software House |
| 5 | Texpose: Development of a Deep Learning Tool for Detecting Text Generated by Large Language Models | 1. Barira Khan Ghauri 2. Fatima Ali 3. Syed Hasnain Ali Naqvi 4. Syeda Shiza Rizvi | Dr. Maria Waqas | - |
| 6 | Deep Learning-Driven Targeted Video Search for Personalized Object Identification | 1. Maryum Sheikh 2. Syed Ateeb Naveed 3. Rao Abdul Rehman 4. Anshara Ayaz Siddique | Dr. Maria Waqas | Odolution Pvt. Ltd. |
| 7 | Enhanced Sign Language Translation: Integrating Behavioral Signatures for Improved Contextual Accuracy | 1. Zargul 2. Shoaib - Ul - Haq 3. Muhammad Haris Khan 4. Aleezah Aatif | Dr. Majida Kazmi | Ida Reiu Welfare Association |
| 8 | HireWise: Optimizing Hiring Process with Automated CV Screening and Interview based Assessment | 1. Muhammad Hamza Anwer 2. Hamza Anwar Mohiuddin | Dr. Majida Kazmi, Prof. Dr. Saad Ahmed Qazi | Cognizant |

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|----|--|---|------------------------------------|--|
| | | 3. Muhammad Usaid Siddiqui 4. Muhammad Azher | | |
| 9 | RetinoVision– Generalizable Diabetic Retinopathy Detection through Anatomical and Pathological Features Extraction | 1. Sameen Baig 2. Shumaila Zafar 3. Fatima Ejaz 4. Zoha Fatima | Dr. Majida Kazmi | A-Eye Diagnostics |
| 10 | Design and Analysis of AXI-MM Integrated Set Associative Cache in Modern SoC Architecture | 1. Abdhullah 2. Ahamed Safnas 3. Farwes Musharraf 4. Ahamed Najman | Dr. Majida Kazmi | DreamBig Semiconductor Inc. |
| 11 | Privacy-Centric AI for Diabetic Retinopathy Screening using Federated Learning | 1. Syeda Rumaisa Saeed 2. Tahira Aurangzeb | Dr. Majida Kazmi | A-Eye Diagnostics |
| 12 | ViRAL - Virtual Reality Assisted Linguistics Tutor | 1. Syed Hussain Ahmed 2. Syeda Aiman Naveed 3. Sameer 4. Malik Muhammad Farooq Ahsan | Dr. Urooj Ainuddin | - |
| 13 | "CLAIR CLEaning Artificially intelligent Robot" | 1. Muhammad Ali 2. Sameer Hussain 3. Muhammad Ali 4. Nensi Bai | Dr. Urooj Ainuddin | - |
| 14 | MedoQRST: Medical Documentation System with QR Support and Speech-to-Text Integration | 1. Fatima Raza 2. Alina Saghir 3. Sadia Moeed 4. Syed Ali Mehdi Rizvi | Dr. Urooj Ainuddin | - |
| 15 | Accelerated Document Layout Analysis and Content Extraction using High-Level Synthesis | 1. Muhammad Sufyan Siddiqui 2. Syed Shahzain Hassan 3. Tooba Umer 4. Muhammad Raim Jamshed | Ms. Fauzia Yasir, Dr. Majida Kazmi | DreamBig Semiconductor Inc. |
| 16 | Digitization and Processing of Urdu Language: An Integrated Platform for OCR, Text-to-Speech, and Summarization | 1. Syed Jawwad Kareem Naqvi 2. Syed Yaseen Jamal 3. Muhammad Adan 4. Muhib Ullah | Ms. Fauzia Yasir, Dr. Majida Kazmi | Anjuman-i Taraqqi-i Urdu Pakistan (ATUP) |

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|----|---|---|------------------------------------|------------------------------|
| 17 | Development of Low-Power Vision Sensor Node for Vehicle Detection using FPGA | <ol style="list-style-type: none"> 1. Rooman 2. Syed Maarij 3. Usama Khalid 4. Faizan Khan | Ms. Mehwish Raza, Dr. Majida Kazmi | DreamBig semiconductor |
| 18 | Next-Gen Philanthropy: Blockchain-Enhanced Tracking and Reporting for Charitable Organizations | <ol style="list-style-type: none"> 1. Maha Zubair 2. Yusra Shahnawaz 3. Hadia Mehmood 4. Hafiza Warisha Aftab | Dr. Syed Zaffar Qasim | - |
| 19 | Precision Plant Care: A System for Identifying and Treating Plant Diseases | <ol style="list-style-type: none"> 1. Muhammad Faizan Soomro 2. Muhammad Subhan Sohair 3. Shehryar Nasir 4. Muhammad Sohaib Saleem | Dr. Syed Zaffar Qasim | - |
| 20 | Smart Asset Tracking and Predictive Maintenance System for Flight Catering | <ol style="list-style-type: none"> 1. Huzaifa Naseer Khan 2. Sheikh Muhammad Farrukh Niaz 3. Syed Wahaj Raza Zaidi 4. Muzammil Raza Rizvi | Dr. Shahab Tahzeeb | Ephlux |
| 21 | Road Shield: A Community-Driven Road Anomaly Detection and Reporting Platform | <ol style="list-style-type: none"> 1. Sameed Fayiz 2. Muhammad Ammar 3. Syed Ismaeel Hamza 4. Abdul Moiz Abid | Dr. Shahab Tahzeeb | Digitorm |
| 22 | Production Monitoring and Inventory Tracking for Industrial Manufacturer | <ol style="list-style-type: none"> 1. Syed Ammar Asim 2. Abdul Bari 3. Usaid Asif 4. Maaz Mustafa | Dr. Shahab Tahzeeb | Ephlux |
| 23 | ActorDB: An Audio-Visual Analysis tool for Indexing, Content-based retrieval and Structured Data Generation | <ol style="list-style-type: none"> 1. Talha Ahmed 2. Abdullah Mansoor 3. Muhammad Haroon 4. Sarah Jawaid | Dr. Shahab Tahzeeb | Grayhat Developers (Pvt) Ltd |
| 24 | Comprehensive Production Planning and Scheduling System for Atlas Autos D.I.D Plant | <ol style="list-style-type: none"> 1. Muhammad Bilal Shaikh 2. Hamna Khan 3. Abdullah Mahmood | Dr. Shahab Tahzeeb | Atlas Autos |

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| 25 | Main Campus QuickServe: Streamlined Ordering, Personalized Recommendations, and Departmental Delivery for Main University Cafeteria | 1. Fatima Siddiqui 2. Aqsa Asif 3. Barira Babar 4. Syeda Maria | Mr. Kashif Asrar, Dr. Ali Hasan Mahmood | - |
| 26 | Automated Anti-Theft Parking with Vision-Based License Plate Verification | 1. Mirza Taha Hassan 2. Shayan Zahid 3. Ibrahim 4. Muhammad Abdurrahman | Mr. Kashif Asrar | - |
| 27 | FashionFusion: AI-Driven Apparel Design Generator for Personalized Styles and Innovation | 1. Syed Muhammad Baqar Hussain Rizvi 2. Meerab Shabeeh 3. Aania Tasleem Imam 4. Suamira Aslam | Mr. Kashif Asrar | - |
| 28 | SmartDoc Assistant: AI Chatbot for Optimized Document Assistance and Website Support | 1. Muhammad Asim 2. Rasib Hassan 3. Maaz Mansoor 4. Mazhar Ahmad Khan | Ms. Sumayya Zafar | - |
| 29 | GaitAnalyzer: A Smart Shoe for Accurate Gait Anomaly Detection using ML | 1. Fakiha Nadeem 2. Vedeeka Rajpal 3. Tabia Kashif 4. Javeria Jawed | Prof. Dr. Syed Abbas Ali | - |
| 30 | Automated Real-Time Monitoring and Consumption Analytics of K-Electric Meters using Continuous Video-based OCR and Mobile Data Reporting | 1. Abbas Raza 2. Hafsa Habib 3. Aymen Fatima Hasan 4. Ibad-UR-Rehman | Prof. Dr. Syed Abbas Ali | - |
| 31 | Designing a Semantic Layer for Odoo ERP: Data Marts, Warehousing, and Analytics | 1. Hammad Jamal 2. Safee Ur Rehman 3. Muhammad Salman 4. Muhammad Sadiq | Prof. Dr. Syed Abbas Ali | Credential Solution |
| 32 | TextileCheck: Machine Learning based Real Time Quality Control in Fabric Manufacturing on FPGA | 1. Muhammad Ali 2. Abdul Basit Siddiqui 3. Saad Mustafa | Ms. Fakhra Aftab, Dr. Majida Kazmi | Artistic Garments Industries (AGI Denim) |

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| | | 4. Muhammad Asad Shahab | | |
| 33 | Machine Vision Pipeline for Steel Surface Defects Detection using FPGA SoC | 1. Aaliyan Mansoor 2. Muhammad Maaz Khan 3. Mohib Ud Din 4. Muhammad Babar Ali | Ms. Fakhra Aftab, Dr. Majida Kazmi | DreamBig Semiconductor & Agriauto |
| 34 | Automated Surveillance and Security System using Motion Transfer Technology for Real-Time Anomaly Detection | 1. Khola Binte Sultan 2. Khansa Asif 3. Hafsa Najam 4. Muhammad Bilal Zubairi | Mr. Ali Akhtar | - |
| 35 | Procedural Modelling using Large Language Models for Intelligent 3D Model Synthesis and Generation | 1. Usman 2. Vinodh Kumar Nihallani 3. Zubair Akhtar | Mr. Ali Akhtar | - |
| 36 | SafEzy: Real-Time Vehicle Theft Detection and Restricted Area Monitoring System using AI Model | 1. Muhammad Ashar 2. Habib Ullah 3. Mirza Danyal Baig 4. Aneeq Akhtar | Mr. Ali Akhtar | - |
| 37 | Automated E-commerce Application and Website through Voice | 1. Syed Wali Shajeeh 2. Mustafa Abbas 3. Khadija | Dr. Zareen Sadiq | - |
| 38 | SecureSign: Advanced Digital Signature Service with NexGuard Encryption for Modern Threats | 1. Manahil Siddiqui 2. Rafay Baig 3. Maha Shoaib Khan | Dr. Asad Arfeen/ Mr. Sheikh Abdul Basit | - |
| 39 | Intelligent Digital Signage: Enhancing User Interaction with Personalized Contents through Real-Time Demographic Analysis | 1. Muhammad Kashif 2. Muhammad Aamir 3. Mansoor Ahmed | Dr. Shehzad Hasan | - |

FYDP Coordinator _____

FYDP Review Committee Head _____

Chairperson _____