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| 37 | Simulation of Monthly Global SST Data Using Ensemble Pix2Pix cGAN | Deepayan Chakraborty (PhD scholar at Dept. of AI), Dr. Adway Mitra (Assistant Professor at Dept. of AI) | deepayanc@iitkgp.ac.in |
| 38 | SAR-Foundation: Toward Foundation Models Using Complex Vision Transformers for SAR | Aashutosh Joshi – SPAi Group, Department of Artificial Intelligence, IIT Kharagpur | aashutoshjoshi01@kgpian.iitkgp.ac.in |
| 39 | Assessment of Time-Varying Flood Proneness and related Risk using Geospatial and Climatic Features through Advanced Machine Learning Approaches | Triveni Majhi, Abhirami V, and Rajib Maity | triveni23@kgpian.iitkgp.ac.in |
| 40 | KlearVisen: Real-Time Fog and Rain Removal from Video | Abinas Chopdar (RS), Abhirup Giri (BTech DD) | abinaschopdar@kgpian.iitkgp.ac.in |
| 41 | Multi-Representation Fusion of Complex SAR Domains for Improved Land Cover Classification | Nipun (IIT KGP), Neha, Mahesh | nipunbharadwaj@kgpian.iitkgp.ac.in |
| 42 | Real-Time IoT-Based Sap Flow Sensor for AI-Enhanced Crop Health Monitoring | Mr. Ambuj Prof. Rajendra Machavaram Agricultural and Food Engineering Department Indian Institute of Technology Kharagpur, West Bengal-721302 | pathakambuj@kgpian.iitkgp.ac.in |
| 43 | Machine learning based modeling for groundwater salinity-a case study on Israel | 1. Laxmi Pandey (Department of Artificial Intelligence, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal 721302, India 2. Adway Mitra (Department of Artificial Intelligence, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal 721302, | adway@cai.iitkgp.ac.in |
| 44 | Future of Water: A Deep Learning-based Assessment and Climate Sensitivity Analysis | Subharthi Sarkar, Mohd. Imran Khan and Rajib Maity Department of Civil Engineering, Indian Institute of Technology Kharagpur, West Bengal, India | subharthisarkar5@iitkgp.ac.in |
| 45 | WAQABOS: An AI-Based Autonomous System for Real-Time Surface Water Quality Monitoring and Assessment | Prasad M \| M -Tech \| Agriculture and food engineering Department \| IIT KGP Sk Abdul Selim \| M -Tech \| Agriculture and food engineering Department \| IIT KGP | shivaprasadlwr.24@kgpian.iitkgp.ac.in |
| 46 | Correcting bias of real-time satellite precipitation products using Geostatistical and Deep learning techniques for the Eastern India River Basin | Roshan Suryakant Mohanty, School of Water Resources, IIT Kharagpur Prof. Bhabagrahi Sahoo, School of Water Resources, IIT Kharagpur Prof. Chandranath Chatterjee, Department of Agricultural and Food Engineering, IIT Kharagpur | roshanmohanty@kgpian.iitkgp.ac.in |
| 47 | Artificial Intelligence Applications for Managing Extreme Weather Risks in Port Operations | Bhuvan Arora and Anwesha Aditya Department of Humanities and Social Sciences, Indian Institute of Technology Kharagpur | arorabhuvann@kgpian.iitkgp.ac.in |
| 48 | FORECASTING DAILY AND REAL-TIME VARIATIONS IN AIR QUALITY ACROSS URBAN CITIES IN INDIA UTILIZING A DESIGNED MACHINE LEARNING MODEL | VYSHNAVI K K and SHUBHA VERMA, Indian Institute of Technology Kharagpur | vyshnavi1996anju@kgpian.iitkgp.ac.in |
| 49 | Real-Time Flash Flood Nowcasting for Indian Metros | ASMITA RAJPUT (Techno Bengal Institute of Technology) DEBDEEP MAHAPATRA (Techno Bengal Institute of Technology) | asmitarajput0510@gmail.com |
| 50 | Spatiotemporal bias correction of real-time satellite rainfall estimates using Geostatistical and Deep Learning techniques for the Eastern India River Basin | Roshan Suryakant Mohanty, School of Water Resources, IIT Kharagpur Prof.Chandranath Chatterjee, Agricultural and Food Engineering Department, IIT Kharagpur Prof. Bhabagrahi Sahoo, School of Water Resources, IIT Kharagpur | roshanmohanty@kgpian.iitkgp.ac.in |
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| 52 | Framework for Classification and Quantification of Distresses in Pavements using Machine Learning | Col. Karan Sharma(PG, Civil Engineering Department), Satyarth Kumar Keshri (UG, Civil Engineering Department), Kranthi Kumar Kuna (Associate Professor, Civil Engineering Department) | satyarthkeshri99@kgpian.iitkgp.ac.in |
| 53 | Cloud-based Adaptive Multi-Branch Object Detection | Abhra Majumder, Nirmalya Ghosh, Anirban Mukherjee, and Siddhartha Mukhopadhyay | abhrasky@iitkgp.ac.in |
| 54 | Comparative analysis of Regression with ARIMA and PI-RNN models for Predicting IGBT Remaining Useful Life using Switch Health Index Embedding Feature Reconstruction approach | Hiteshree Suresh Sakhare, Heeralal Gargama Subir Chowdhury School of Quality and Reliability, IIT Kharagpur, Kharagpur-721302, India | hiteshreesakhare@kgpian.iitkgp.ac.in |
| 55 | Future of Household Statistics Automating Prediction of Household and Village Level Indicators | Dr. Tutan Ahmed, Raunak Pal IIT Kharagpur | tutan@vgsom.iitkgp.ac.in |
| 56 | Real time roadside hazard detection in an urban junction | Individual | drishtidevi102925@kgpian.iitkgp.ac.in |
| 57 | AI-Powered Virtual Trade: Unlocking 24/7 Global Services Through ICT Synergies and Time Zone Arbitrage | Arundhati Sinha Roy - PhD Research Scholar, Department of Humanities and Social Sciences, IIT KGP Dr. Anwesha Aditya - Assistant Professor, Department of Humanities and Social Sciences, IIT KGP Dr. Siddhartha Chattopadhyay - Associate Professor, Department of Humanities and Social Sciences, IIT KGP | arundhatisroy@kgpian.iitkgp.ac.in |
| 58 | Decoding Urban Network Hierarchies with AI | Vimal Kumar Arulmozhi, ARP, IIT Kharagpur Shreyas Pramod Bharule, ARP, IIT Kharagpur | ar.vimalkumar1995@kgpian.iitkgp.ac.in |
| 59 | From Scarcity to Robustness: Generative AI for Imbalanced and Incomplete Scientific Data | Anmol Singh Akshat Agarwal Jishnu Mukherjee Aman Sinha Anurag Singha This Project was carried out under the Guidance of Prof. Subhajit Sidhanta | anmolsingh292003@kgpian.iitkgp.ac.in |
| 60 | Application of Generative AI For Urban Road Junctions Assessment: A Case Study Safety | Atharva Sanjay Deshmukh M.Tech Scholar Centre of Excellence on Safety Engineering and Analytics (CoE-SEA) IIT Kharagpur Laxman Singh Bisht Assistant Professor Centre of Excellence on Safety Engineering and Analytics (CoE-SEA) IIT Kharagpur | atharvadeshmukh1725@kgpian.iitkgp.ac.in |
| 61 | Wide2Long: Learning Lens Compression and Perspective Adjustment for Wide-Angle to Telephoto Translation | Soumyadipta Banerjee, Jiaul H. Paik, Debashis Sen. Presenter: Soumyadipta Banerjee and Ankan Das | dsen@ece.iitkgp.ac.in |
| 62 | Zero-shot Single Image Restoration through Controlled Perturbation of Koschmieder's Model | Aupendu Kar, Sobhan Kanti Dhara, Debashis Sen, Prabir Kumar Biswas. Presenter: Ankan Kumar Das. | dsen@ece.iitkgp.ac.in |
| 63 | Setting the Course, but Forgetting to Steer: Analyzing Compliance with GDPR's Right of Access to Data by Instagram, TikTok, and YouTube | Sai Keerthana Karnam (IIT Kharagpur), Abhisek Dash (MPI-SWS) , Antariksh Das (IIT Kharagpur), Sepehr Mousavi (MPI-SWS), Stefan Bechtold (ETH Zurich) , Krishna P. Gummadi (MPI-SWS), Animesh Mukherjee (IIT Kharagpur), Ingmar Weber (University of Saarland), Savvas Zannettou (TU Delft) | saikeerthanakarnam.24@kgpian.iitkgp.ac.in |
| 64 | Applying Dynamic Mode Decomposition for LLM Interpretability | Amogh Joshi, Professor Animesh Mukherjee (IIT Kharagpur), Professor Sergey Utyuzhnikov (University of Manchester) | amoghjoshi25@kgpian.iitkgp.ac.in |
| 65 | Deep Learning-Based Collision Warning System for Pedestrian Safety at Zebra Crossings | Arham Shaikh, Civil Engineering Department, Indian Institute of Technology Kharagpur,West Bengal, India, 721302 Sayanton Mohanta, Civil Engineering Department, Indian Institute of Technology Kharagpur,West Bengal, India, 721302 Dr Madhumita Paul, Civil Engineering Department, Indian Institute of Technology Kharagpur,West Bengal, India, 721302 | arhamshaikh.24@kgpian.iitkgp.ac.in |
| 66 | Smart AI Solutions for Automated Capsicum Harvesting Using YOLO | Ayan Paul, Research Scholar, IIT Kharagpur | ayanpaul2210@kgpian.iitkgp.ac.in |
| 67 | AI/ML for OIL/Gas and coal reservoirs: Application of meta-learner ensembles to neuro-symbolic AI with deep learning | Rupam Roy, Laraib Abbas, Dip Kumar Singha Department of Geology and Geophysics, Indian Institute of Technology Kharagpur, West Bengal-721302, India | royrupam964@kgpian.iitkgp.ac.in |
| 68 | Semantic Segmentation of Google Street View Images for Measuring the Street-Built Environment | 1. Anubhav Kumbhre, Research Scholar, Department of Architecture and Regional Planning, IIT Kharagpur 2. Shreyas Bharule, Assistant Professor, Department of Architecture and Regional Planning, IIT Kharagpur | anubhavkumbhre@kgpian.iitkgp.ac.in |

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| 69 | Toward Grounded YOLO-SAM: Unified Detection – Segmentation Framework for Agricultural Intelligence | Pooja Verma, Research Scholar, Indian Institute of Technology Kharagpur. Rajendra Machavaram, Associate Professor, Indian Institute of Technology Kharagpur. Mahua Bhattacharya, Professor, ABV-Indian Institute of Information Technology and Management Gwalior. | pverma@kgpian.iitkgp.ac.in |
| 70 | Application of Generative AI to predict Road User's Behaviors on Hilly Roads: A Concept | Albert lohe & Laxman singh bisht | Alotoalbertlohe25@kgpian.iitkgp.ac.in |
| 71 | AI-Vahan: Enhancing Rural Mobility and Transportation with Real-Time Road Monitoring | Prashant Sireesh : Research Scholar, Dept. of Architecture & Regional Planning, IIT Kharagpur Dr. Shreyas P. Bharule : Assistant Professor, Dept. of Architecture & Regional Planning, IIT Kharagpur Dumasia Kehkasha Fatema Ahmedbhai : Research Scholar, Dept. of Architecture & Regional Planning, IIT Kharagpur | sireesh@kgpian.iitkgp.ac.in |
| 72 | Application of Machine Learning in Screening the Optimal Enhanced Oil Recovery Technique | Atman Madhumaya, Deysarkar Centre of Excellence in Petroleum Engineering, Indian Institute of Technology Kharagpur, India Akshay Chandan Dey, Deysarkar Centre of Excellence in Petroleum Engineering, Indian Institute of Technology Kharagpur, India Aditya Vyas, Deysarkar Centre of Excellence in Petroleum Engineering, Indian Institute of Technology Kharagpur, India | atmanmadhumaya@kgpian.iitkgp.ac.in |
| 73 | Constant Time Decision Trees and Random Forest | Maddimsetti Srinivas | maddimsetti34@gmail.com |