SURJO DEY

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EDUCATION

Rajiv Gandhi Institute of Petroleum Technology, Raebareli, India **2022 - Present**
B.Tech — Computer Science and Engineering

RESEARCH WORK

Extraction of Objects of Interest Using Satellite Images **Mar'24**
Collaborated with ISRO Respond Basket 2023 to automate information extraction from high- and medium-resolution satellite images, optimizing multi-source data analysis.

Automated Detection and Analysis of Minor Deformations in Flat Walls Due to Railway Vibrations Using LiDAR and Machine Learning **Jun'24**
Developed a methodology using TLS LiDAR and ML to detect deformations caused by railway vibrations, improving urban safety. Paper Link

Comprehensive Analysis of Structural Defects in Various Structures Using TLS Data and Machine Learning **Nov'24**
Utilized TLS data and machine learning algorithms to analyze structural defects in various structures, enhancing defect detection and assessment methods.

PROJECTS

ML-Based Movie Recommendation System **May'24**
Built a movie recommendation system using Python and scikit-learn, leveraging collaborative filtering and content-based techniques.

Image Processing and Object Identification Using Neural Networks **Nov'24**
Developed a CNN model for object detection, achieving high accuracy in identifying objects in complex images.

TECHNICAL SKILLS

Languages: Python, MATLAB, C
Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib
Tools: Excel, Word, PowerPoint, Google Earth Engine
Platforms: MATLAB, Google Colab, Jupyter Notebook, Visual Studio Code
Operating Systems: Windows, Linux (Ubuntu)

POSITIONS OF RESPONSIBILITY

IEEE Student Branch – Executive Member **Dec'22 - Present**
Science and Technology Council – Member **Jan'23 - Present**
Josephite Math Club – Corresponding Secretary **Jun'19 - Jun'21**

ACHIEVEMENTS

Presented a paper at the 2024 IEEE International Conference on Future Machine Learning and Data Science (FMLDS) at Sydney, Australia
Presented a paper at the 15th International IEEE Conference on Computing, Communication, and Networking Technologies (ICCCNT) at Mandi, India