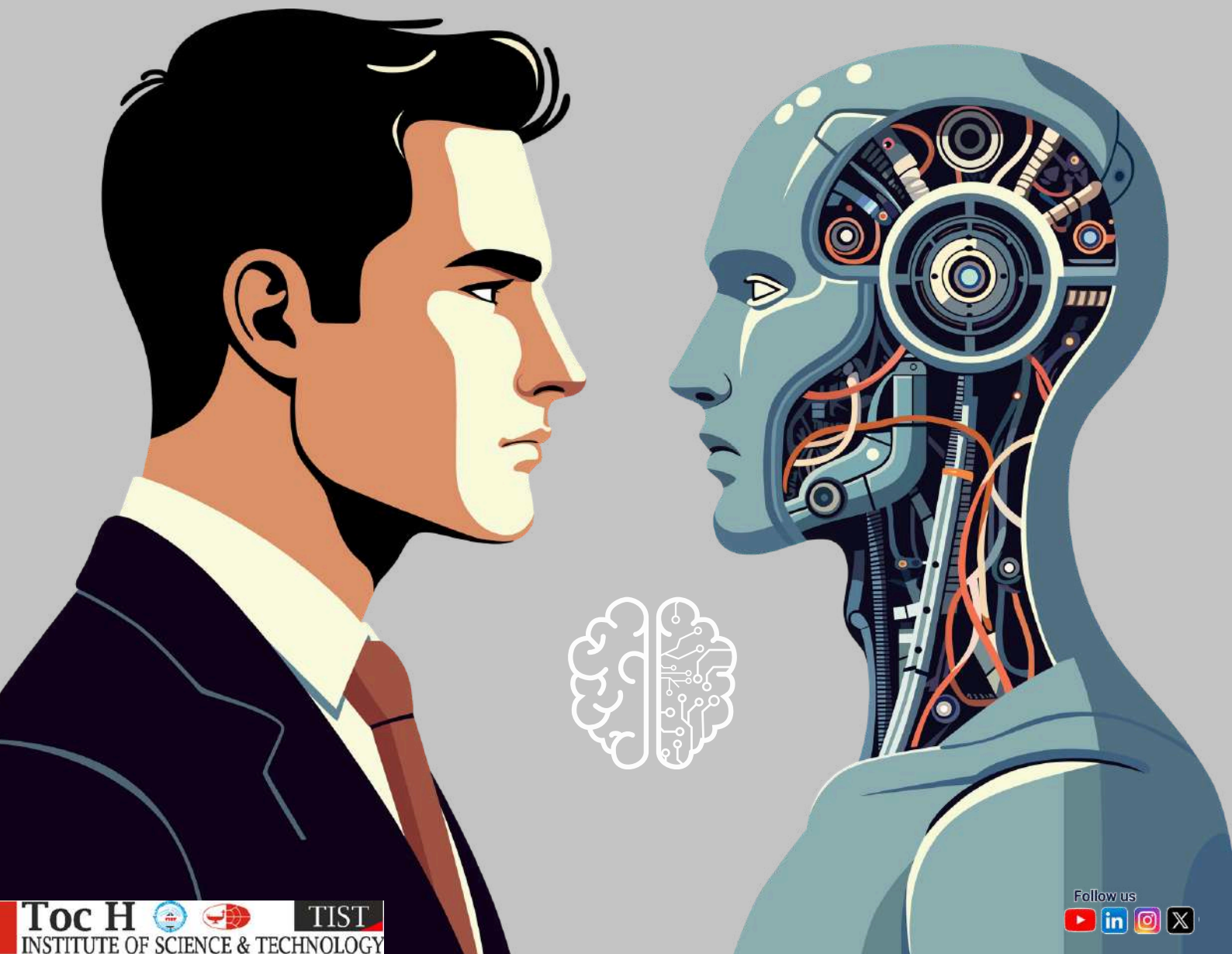




IT CHRONICLES

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**WHERE INNOVATION
KNOWS NO LIMITS**



INSTITUTE VISION

To become a globally recognized institution that develops professionals with integrity who excel in their chosen domain making a positive impact in industry, research, business and society.

INSTITUTE MISSION

- To provide the ambience necessary to achieve professional and technological excellence at the global level.
- To undertake collaborative research that fosters new ideas for sustainable development.
- To instill in our graduates ethical values and empathy for the needs of society.

VISION OF IT DEPARTMENT

“To become a globally recognized centre of excellence in the field of Information Technology, providing technology excellence that advances learning, teaching, research to produce budding IT professionals, researchers, innovators and entrepreneurs.”

MISSION OF IT DEPARTMENT

- Produce graduates with the best knowledge and practical skills by imparting innovative skills, research aptitude, ethics, and social responsibility.
- To create ambience of academic excellence through state of the art infrastructure and learner centric pedagogy leading to employability, and research.
- Imbibe and in still in them the required qualities to become leaders who can make positive contribution to the society.
- Enhance the student's knowledge in the latest technologies by organizing and participating in technical programs
- Interact and work closely with industries and research organizations to accomplish technology transfer



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AN AI-BASED APPLICATION THAT USES NATURAL LANGUAGE PROCESSING TO EXTRACT IMPORTANT INFORMATION AND GENERATE CONCISE SUMMARIES OF LENGTHY TEXT.

TO-DO LIST USING BLOCKCHAIN

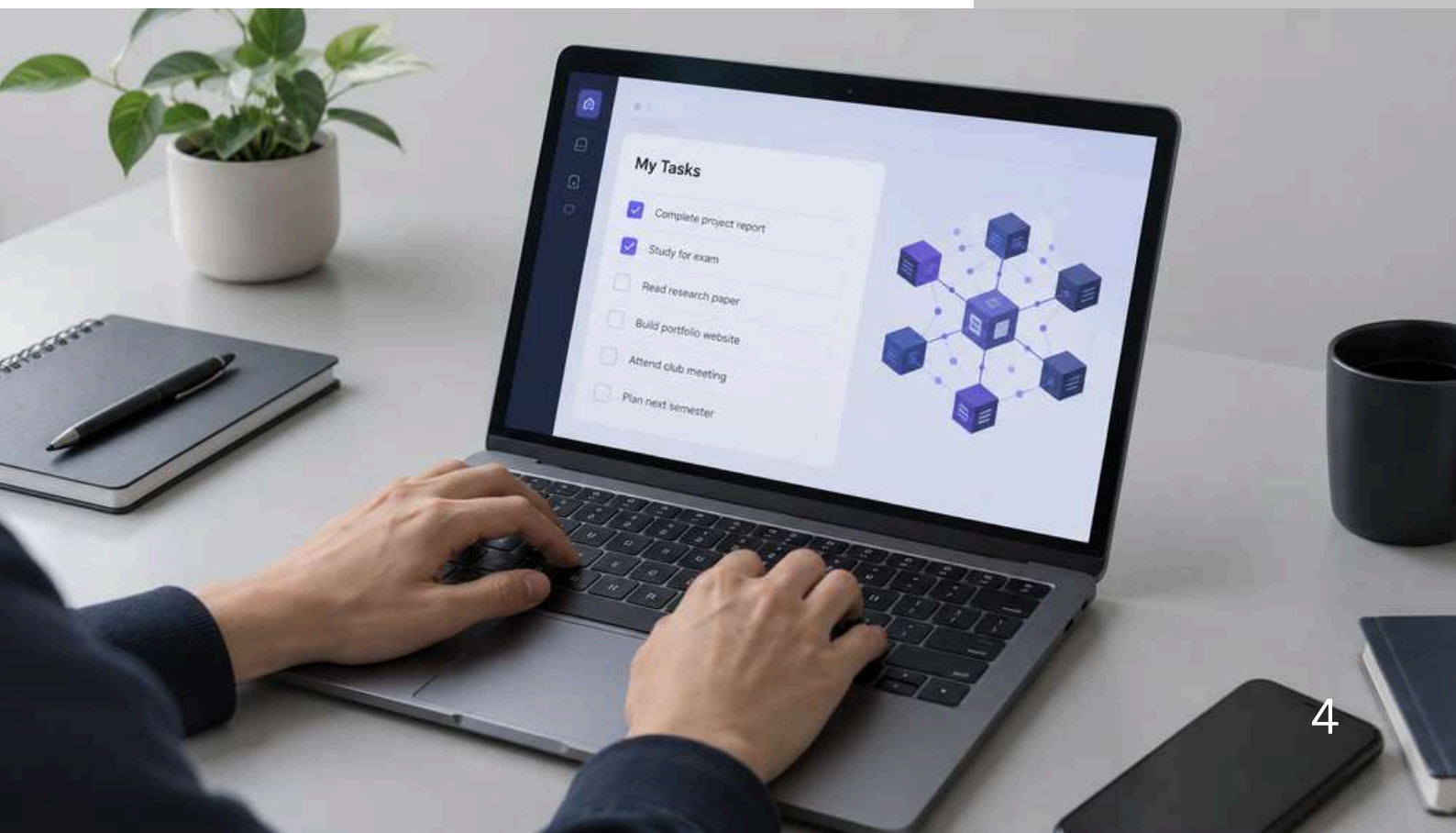
This project involves building a to-do list application that will save the data in the blockchain. The blockchain part of this application can also be understood as a database. First create a smart contract with the object-oriented programming language. Then, test against the smart contract, and deploy it to a blockchain. Create a client-side application for the to-do list that will talk directly to the blockchain. Use the blockchain, which can be accessed by connecting our client-side application to a single node. Write a smart contract in Solidity that powers the to-do list, and deploys it to the blockchain and also connect to the blockchain network with our personal account using a wallet in order to interact with the to-do list application.

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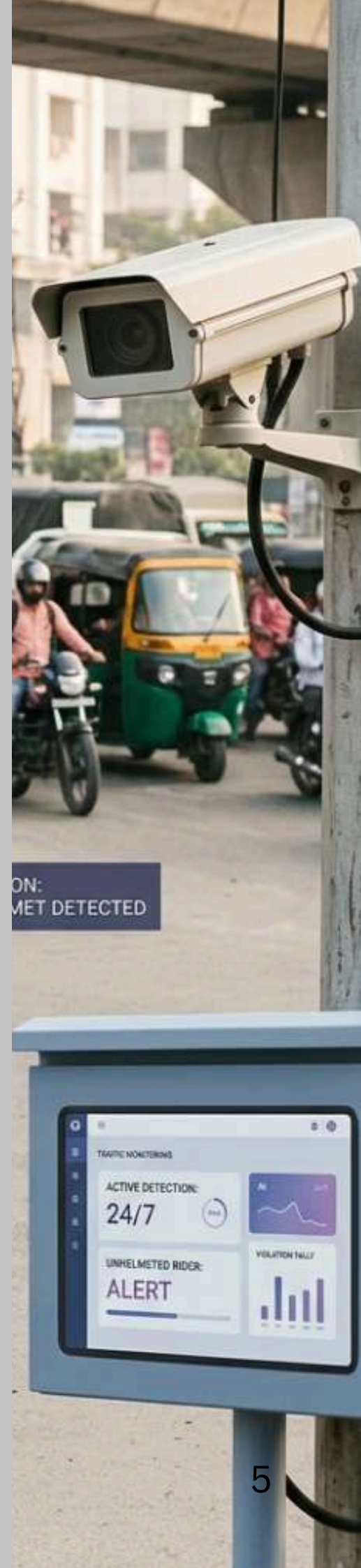
HELMET DETECTION SYSTEM FOR TWO WHEELERS

The increasing number of vehicles and road accidents has led to a significant increase in fatalities and injuries. India ranks first in road accident deaths globally, accounting for almost 11% of accident-related deaths. In 2019, 449,002 accidents occurred, resulting in 151,113 deaths and 451,361 injuries. Traffic rule violations, such as overspeeding and driving on the wrong side of the road, were the main causes. Motorcycle accidents are particularly prevalent in developing countries, with riders or passengers not wearing helmets. Automated video surveillance systems are essential for monitoring and law enforcement, as they can automatically detect security incidents or abnormal events. The proposed Traffic Violation Monitoring System focuses on 2 wheelers and can monitor road traffic activities, identify vehicles during violations, and detect street traffic signals lane violations. This information can be traced to authorities for effective action, ensuring smooth traffic flow and preventing accidents. The system captures vehicle images using image segmentation techniques, enhancing transparency and efficiency in monitoring traffic violations.

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SKIN DISEASE DETECTION SOFTWARE USING AI



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physiWARE_AI is a mobile based application. If the user is affected by any skin disease, they just need to take a picture of the affected area and upload it into the application. The application tells the user about the disease they are affected with in detail. If the disease seriously affects your health, it shows an option to make a consultation. The available doctors and their consultation time will be displayed. The user needs to make an online appointment at the available time and get the required treatment. Apart from this, a user can also give the general symptoms related to diseases other than skin disease. All these procedures are implemented in this project using Machine Learning & Artificial Intelligence Techniques.

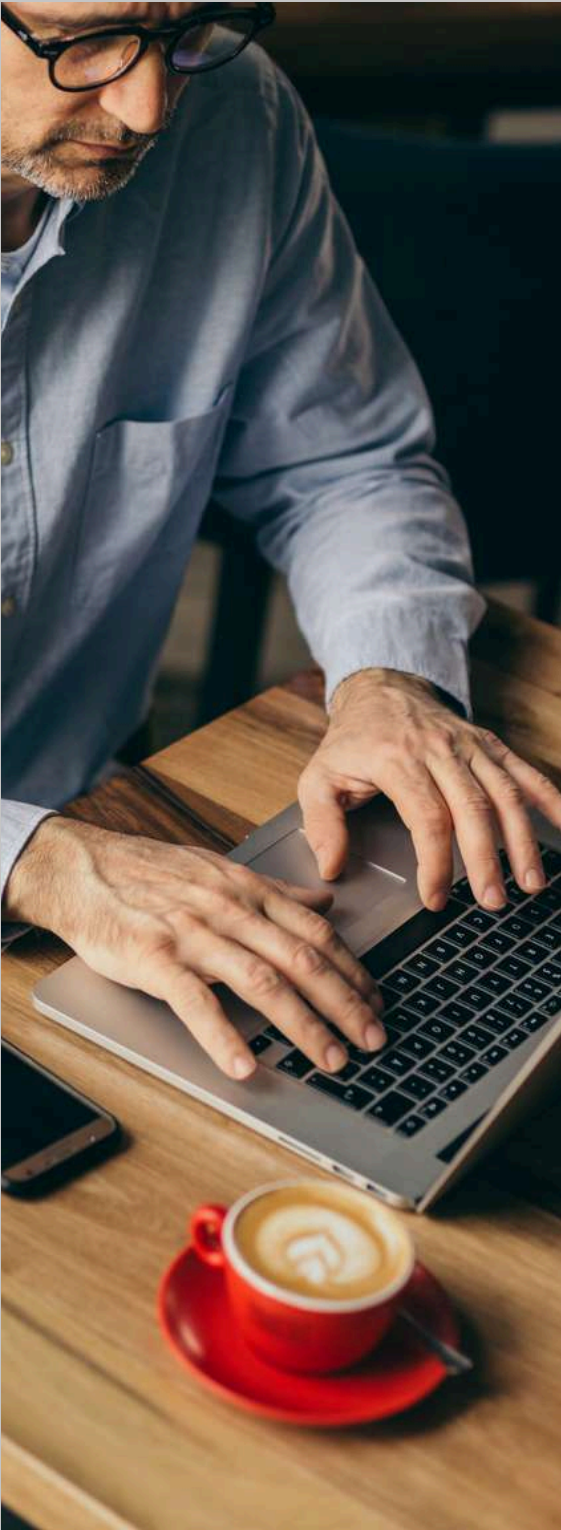
SIGN CONVO : SIGN LANGUAGE TO TEXT CONVERSION



Sign language is one of the oldest and most natural form of language for communication, but since most people do not know sign language and interpreters are very difficult to come by. This mini project comes up with a real time method using neural networks for fingerspelling based American sign language. In this method, the hand is first passed through a filter and after the filter is applied the hand is passed through a classifier which predicts the class of the hand gestures. This method provides 26 letters of the alphabet. Python is the back-end application.

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TEXT SUMMARIZER

Text summarization refers to the technique of shortening long pieces of text. Automatic text summarization is a common problem in machine learning and natural language processing (NLP). As humans have short attention span, there is a need to process the articles and give out relevant information. Machine learning algorithms can be used to process the information contained in a news article and 'summarize' it to give the news to the reader. Neural nets have been observed to be able to handle large amounts of data and can predict complex patterns and relationships between different variables. Thus, deep learning techniques are best suited to create a text summarizer.

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