PRATYUSH NAG

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EDUCATION

Manipal University Jaipur,
Bachelor of Technology in Computer and Communication Engineering — Expected 2024
Relevant Coursework: Artificial Intelligence, Software Engineering, Operating Systems, and Algorithms.
Cumulative GPA: 8.35

SKILLS

Languages	Java, Python, Solidity, JavaScript,
Libraries and Frameworks	TensorFlow, SciKit-Learn, Keras, Matplotlib, Hardhat, React.js,
Tools	Git, GitHub.

PROJECTS

Autoencoder based brain tumour detection using deep learning methods. Python, TensorFlow, Keras, Matplotlib, Scikit Learn.

- Administered and coded a Model to Detect Brain tumours in Humans using MRI images, the model was trained and tested on 11000+ images and 6000+ images of data respectively.
- Spearheaded the development of an Auto-encoder model using TensorFlow and convolutional neural networks to detect brain tumours from MRI scans, resulting in a 60% increase in accuracy and enabling timely interventions.
- Achieved an Accuracy of 99.97% with a very low rate of false positives and false negatives.

Emotion Recognizer for Speech Using Deep Learning Techniques. Python, TensorFlow, Keras, Matplotlib, Scikit Learn.

- Incorporated the TESS dataset comprising over 3000+ audio files and 7 emotion classes to train and test the emotion recognition model.
- Orchestrated the implementation of LSTM networks for emotion recognition, leveraging their sequential data processing capabilities to achieve exceptional accuracy in analysing speech and detecting emotions.
- Improved emotion recognition results were achieved using deep learning approaches, with an accuracy of 99.46% and an AUC of 99.90%, showcasing the project's exceptional precision in speech analysis.

Fake Product Verification using blockchain. Solidity, Hardhat, React.js,

- Developed a blockchain based application revolutionizing the product verification process and reducing verification time, leading to improved customer satisfaction and increased revenue.
- Applied smart contracts and cryptographic techniques to establish a tamper-proof product verification system, enhancing consumer trust and combating counterfeit goods effectively.

Cyberbullying Detection Using CNN Prediction Model. Python, TensorFlow, Keras, Matplotlib, Scikit Learn

- Developed a Cyberbullying detection model using CNN, which was trained on 47692 labelled tweets consisting of 6 classes.
- The model achieved an accuracy of 96.7% and an Area under the curve (AUC) of 94.8%.