Venkata Jayanth Kocherla

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EDUCATION

Indian Institute of Information Technology Vadodara International Campus Diu **[2022 - 2026]**
*Bachelor of Technology in Computer Science and Engineering - **CGPA - 7.2***

EXPERIENCE

National Institute of Technology, Warangal **May 2025 - July 2025**
*Summer Intern under the guidance of **Prof.L.Anjaneyulu*** *Warangal, Telangana*

Co - Mentor: **Vivek Merugu** (Founder of VirGen Verse Pvt.Ltd.)

- Developed a decentralized application using Solidity, Truffle, Ganache, and React.js to store medical records securely on IPFS and blockchain, ensuring privacy, integrity, and patient ownership.
- Integrated Pinata for decentralized file hosting, implemented smart contracts for role-based access control, and built a responsive React.js interface for patients and doctors.
- Optimized blockchain and IPFS storage to improve data access speed by 30%, increased patient–doctor booking efficiency by 20%, boosted user engagement by 25%, and enhanced data security by 40%.

PROJECTS

Delivery Management System

* Identified inefficiencies in order tracking that led to frequent delays and customer dissatisfaction.
* Designed and implemented a SQL-based Delivery Management System with a relational schema capturing orders, delivery statuses, customer profiles, and logistics routes.
* Reduced order processing time by 30% and improved on-time delivery rate by 25%, significantly enhancing customer satisfaction and operational transparency.

Drowsiness Detection

* Observed a rise in fatigue-related incidents in workplaces and driver settings without an automated monitoring solution.
* Developed a CNN-based model integrated with OpenCV's 64-point facial landmark detection to analyze eye closures and yawning patterns in real time.
* Achieved 94% detection accuracy—an 18% reduction in false negatives compared to SVM and HOG methods—and enabled proactive alerts to prevent fatigue-related incidents.

Brain Cancer Prediction

* Identified the need for accurate early-stage detection of brain cancer types (Glioma, Meningioma, Tumor) to assist radiologists in diagnosis.
* Developed a Convolutional Neural Network (CNN) model to classify MRI brain images, incorporating preprocessing and performance evaluation through accuracy/loss curves and confusion matrix analysis.
* Achieved 99% training accuracy and 93.48% testing accuracy, enabling reliable classification and supporting faster, data-driven medical decision-making.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, HTML, CSS, LATEX
Databases: SQL, MySQL, MongoDB
Frameworks and Libraries: ReactJS, NodeJS, ExpressJS, MATLAB
Operating Systems: Ubuntu, Linux, Windows
Web3: Web3.js, Ethers.js, Truffle, Ganache, HardHat, Pinata
Tools and Platforms: Docker, Git, Github, Kubernetes
Machine Learning Frameworks: PyTorch, Tensorflow, Keras, scikit-learn, OpenCV, Numpy, Pandas, Matplotlib, Seaborn
3D Design: Blender, Unity

CERTIFICATIONS

- Fundamentals of Deep Learning from NVIDIA - September 2024