UJJWAL JAIN

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Education

Vellore Institute of Technology   **2022 – 2026**
B.Tech - Computer Science and Engineering (Majors in Cybersecurity and Digital Forensics)   **CGPA: 8.04**

Technical Skills & Courses

Languages: C++, Python, JavaScript, SQL

Core Concepts: Data Structures and Algorithms, Analysis of Algorithms

Technologies/Frameworks/Libraries: HTML, CSS, Machine Learning, Git

Coursework: Computer Networks, Operating System, Database Management Systems, Object-Oriented Programming, Principles of Digital Forensics, Web Security, Amazon Web Services, Engineering Design and Modelling, Cyber Threat Analysis

Projects

ConnectChildren-AI as Psychiatrist | **AI, Mental Health Tech, 3D Web**   **February 2024**
- Developed an interactive virtual psychiatrist platform using **HTML, CSS, JavaScript, and Three.js** to deliver immersive mental health support sessions for children.
- Integrated **AI-driven real-time analysis** of both speech and facial expressions to assist psychiatrists in diagnosing and understanding nuanced emotional states.
- Engineered a secure, **user-friendly system that seamlessly connects psychiatrists and young patients**, facilitating responsive intervention for issues like anxiety, depression, and stress.

SmartHR: AI-Powered Employee Management System | **(AI, HR Tech, Python)**   **Mar, 2025**
- Developed an **AI-driven Employee Management System** using **Machine Learning (Decision Trees, Neural Networks)** and **Python**, achieving **95% accuracy** in **performance predictions**.
- Processed and analyzed **10,000+ employee records**, leveraging **automated feature extraction, anomaly detection, and predictive analytics** to enhance workforce efficiency.
- Deployed a **scalable HR analytics dashboard**, optimizing **employee retention** and **workforce planning** through AI-powered insights.

AntiPiracy - AI & Cyber-Based Anti-Piracy System | **AI, Cybersecurity**   **July 2025**
- Researched advanced tracking techniques including **QR codes, watermarks, steganography**, implementing invisible security markers **using OpenCV and deep learning** for robust content protection.
- Spearheaded the design of real - time detection pipelines utilizing **YOLO, Optical Flow, and neural networks**, optimized for deployment on mobile and wearable platforms **while maintaining accuracy** .
- Focused on **safeguarding intellectual property rights (IPR)** through innovative AI and cybersecurity solutions.

Certifications

- Certified In **OCI Foundations Associate** [Issued by ***Oracle*** 2025]
- Certified In **OCI AI Foundations Associate** [Issued by ***Oracle*** 2025]
- Certified In **OCI Generative AI Foundations Associate** [Issued by ***Oracle*** 2025]
- **Cyber Security Analyst** [Issued by ***IBM*** 2025]
- **SQL** [Issued by ***HackerRank*** 2025]

Achievements & Extracurricular Activities

- **Completed MERN Stack**   [Issued by **Ethnus Codemithra** 2025]
- **Core Member – Biz Whiz Club**
  Oversaw **financial planning**, budgeting, and resource allocation, ensuring optimal utilization of funds for club initiatives and events.
- **Technical Writer – Cyberwarrior Club** Managed and produced comprehensive technical documentation, including guides, reports, and communication materials, to support club activities and knowledge sharing.