






# Rananjay Singh Chauhan

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## Education

<b>Vellore Institute of Technology, Bhopal</b> B. Tech in Computer Science Engineering (AI & ML Specialization)	09/2023 – Present GPA: 8.32/10
<b>Little World Higher Secondary School, Jabalpur</b> Class XII, CBSE	05/2023 Marks: 402/500
<b>Little World Higher Secondary School, Jabalpur</b> Class X, CBSE	05/2021 Marks: 564/600

## Technical Skills

**Programming Languages:** Python, Java, C/C++, SQL (MySQL), JavaScript, HTML, CSS  
**Generative AI & LLMs:** Hugging Face Transformers, Prompt Engineering, RAG, Vector Databases (FAISS, Pinecone)  
**ML & Data Tools:** TensorFlow, PyTorch, Keras, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, XGBoost, LightGBM, OpenCV, NLTK  
**Other Tools:** GitHub, Flask, Streamlit, Gradio, Jupyter, MS Excel

## Projects

**Legal Document Sentiment Analyzer (NLP & Transformers)** – GitHub  
Built a transformer-based system to analyze legal documents for sentiment and risk scoring. Applied prompt engineering and embeddings for contextual precision. Deployed a Streamlit dashboard for real-time visualization.

**AnoCheck: Video Anomaly Detection System** – GitHub  
Designed anomaly detection pipeline for surveillance using spatio-temporal autoencoders and embeddings. Achieved ~85% precision.

**Deep-Detect: ML-based Deepfake Detection** – GitHub  
Developed CNN + transformer-enhanced pipeline for video-based deepfake detection. Achieved ~80–85% accuracy.

**Camera-based Attendance Recording Software** – GitHub  
Developed contactless facial-recognition-based attendance system. Incorporated embedding-based face verification, reducing manual attendance errors by 40%.

## Certifications

- AWS Academy Graduate - Cloud Foundations (Credly)
- AWS Academy Graduate - Machine Learning Foundations (Credly)
- GenAI using IBM Watsonx (IBM CEP)

## Additional Information

**Soft Skills:** Problem-solving, Collaboration, Public Speaking, Emotional Intelligence, Critical Thinking, Empathy, Adaptability, Learning Agility

**Hobbies:** Cricket, Model United Nations (MUNs), Debating

**Languages:** English (Proficient), Hindi (Native), French (Beginner)