

Kinshuk Chauhan

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EDUCATION

Indian Institute of Technology, Mandi	Mandi, Himachal Pradesh
<i>BTech. in Computer Science And Engineering (CGPA: 8.25)</i>	2023 – 2027
• Relevant Coursework: Data Structures and Algorithms, Design of Algorithms, Mathematical Foundation of Computer Science, Data Science I, II, III, Introduction to DBMS, Formal Languages and Automata Theory.	
St Peter's Senior Secondary School	Chandigarh
<i>Class 12 – 93.8%</i>	2023
St. John's High School	Chandigarh
<i>Class 10 – 97%</i>	2021

EXPERIENCE

Hackathon Participant, CS671: Deep Learning and its Applications (with HCLTech)	May 2025
<i>Indian Institute of Technology Mandi</i>	<i>Mandi, India</i>
• Participated in a 3-day hackathon organized as part of CS671 and sponsored by HCLTech, involving over 300 students.	
• Built the project <i>Capture Smart AI</i> to detect and classify image quality issues on Android devices.	
• Collaborated in a team to design, train, and evaluate machine learning models for real-time quality detection.	
• Secured 3 rd place among all teams for our innovation in the assigned problem statement.	
Deepfake Image Detection – CS671 Course Project	Mar 2025 – May 2025
<i>Indian Institute of Technology Mandi</i>	<i>Mandi, India</i>
• Built a deep learning pipeline to detect real vs. fake images using feature extractors like CLIP ViT-L/14, ViT-H/14, DINOv2, and SigLIP.	
• Used frozen transformer-based vision-language encoders to extract semantic + generation-specific latent features from 700K+ images.	
• Trained an SVM (RBF kernel) classifier on the extracted embeddings for binary classification with Hinge Loss.	
• Achieved top accuracy of 83.5% on unseen deepfake generators, with 100% on ProGAN, 98.2% on CycleGAN, and 93.5% on StyleGAN.	

PROJECTS

Adobe Hackathon – Challenge 1B: Persona-Driven Document Intelligence	
<i>Python, NLP, scikit-learn, spaCy, Docker</i>	GitHub
• Built a persona-aware document retrieval system to extract and prioritize relevant sections from multi-PDF collections.	
• Developed modular pipeline with DocumentProcessor , PersonaJobAnalyzer , RelevanceScorer , and SubSectionAnalyzer .	
• Ensured CPU-only execution, less than 60s processing time for 3–5 documents, and model size less than 1GB .	
• Produced structured JSON outputs with relevance scores, supporting downstream integration in research workflows.	
Veriscope Project <i>Python, Deep Learning, Image Processing</i>	GitHub
• Developed a deep learning application for analyzing vascular patterns in eye images to assess vascular health.	
• Implemented vessel segmentation and feature extraction techniques to quantify vessel density, tortuosity, and branching patterns.	
• Applied advanced image processing methods to enhance the accuracy of vascular feature detection.	
Capture Smart AI <i>Python, Machine Learning, Android Development</i>	GitHub
• Developed an AI-powered application for detecting and classifying image blur and shutter speed issues in photographs.	
• Trained machine learning models to accurately identify and categorize various image quality problems.	
• Integrated the models into an Android application to provide real-time feedback on image quality.	

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (PostgreSQL), JavaScript, TypeScript, HTML/CSS, Java
Libraries & Frameworks: React, Next.js, Node.js, Tailwind CSS, Framer Motion, NumPy, pandas, PyTorch, TensorFlow
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, Eclipse
Machine Learning: Supervised/Unsupervised Learning, Model Evaluation, Feature Engineering, Neural Networks, CNNs