

Keval Patel

Major in Computer Science and Engineering
Indian Institute Of Technology, Mandi
2022-2026

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Mandi	7.21 (Till 5th Sem)	2026(Expected)
Senior Secondary	GSEB Board	87%	2022
Secondary	GSEB Board	90%	2020

TECHNICAL SKILLS

- Programming Languages:** C, C++, Python, JavaScript, Dart
- Frameworks:** ScikitLearn, NLTK, TensorFlow, PyTorch, flutter, Keras
- Libraries/Databases:** Pandas, NumPy, Matplotlib, Transformers, OpenCV, SciPy, MySQL, PostgreSQL
- Tools & Technologies:** Vs Code, Git, Github, Visual Studio Code, Google, Colab, Android Studio code, Figma

PROJECTS

- Guardians of Truth (Deepfake Detection and Fake News Check)** Dec'23-April'24
CLIP-ViT-L/14, Resnet50, CNN, Fine-Tuning, LSTM, Javascript, FastAPI [Model Link](#) | [Github Link](#) | [Demo Link](#)
 - Implemented Research paper using ProGAN dataset and **CLIP (ViT-L/14)** for feature extraction, achieving **92.9%** and **87% accuracy** on Dalle and Glide-100 datasets respectively **surpassing SOTA results** of 86% and 79%.
 - Fine-tuned **RESNET-50** model to detect deepfakes with **87% accuracy** and identify the sources with **93% accuracy**.
 - Built **TruthGuard** for fake news detection, achieving **92% accuracy** utilizing LSTM for **sentiment analysis**.
 - Integrated **Guardian** for Deepfake and **TruthGuard** model into a web platform for real-time updates and verification.
- Carbon Campus** Feb'24 - May'24
Rest API, Dart, Flutter, MongoDB [Github Link](#) | [Demo Link](#)
 - Developed a mobile app to **calculate carbon footprint** based on user input like energy, food, vehicles and flights.
 - Features a **chatbot**, powered by the **Gemini API**, offering personalized suggestions for reducing carbon emissions.
 - Visualizes carbon emissions of college buildings, including mess halls, canteens, and other infrastructure, displaying **real-time** data. Includes a **carbon trading** system where users can trade based on their emission amounts.
 - Displays real-time news updates related to carbon emissions and sustainability trends, with integration of the Wren page.
- SecureVue AI** Dec'23-Feb'24
LSTM, CNN, LRCN, OpenCV, ReactJS [Github Link](#) | [Demo Link](#)
 - Developed as part of the **GDSC Google Solution Challenge**, the project focuses on advancing **SDG 16**.
 - Engineered an AI model for **Real-Time CCTV Surveillance** to bolster efforts in enhancing security and monitoring.
 - Designed an user-friendly video posting interface and a dynamic community forum for idea exchange.
 - Incorporating the capabilities of **CNNs and LSTMs**, the system detects criminal activities with **80% accuracy**.
 - Applied frame prediction to **classify crime types** (arson, shootings, road accidents) with **99% accuracy**.

Certificate

- JPMorgan Chase & Co. Quantitative Research Virtual Experience Program on Forage** Feb'25
Completed a simulation focused on quantitative research methods. [Certificate](#)
 - Analyzed a book of loans to estimate a customers probability of default.
 - Used dynamic programming to convert FICO scores into categorical data to predict defaults.

RELEVANT COURSES

Linear Algebra, Ordinary Differential Equations, Mathematical Foundation of Data Science, Data Structures and Algorithm, Information and Database Systems, Formal Language and Automata Theory, Probability and Statistics, Machine Learning, Statistical Foundation of Data Science, Design of Algorithm, Computer networks, Operating System, personal finance and portfolio management, essentials of entrepreneurship, principle of economics.

ACCOMPLISHMENTS

- Ranked 2798 in Jee Advance and 7826 in Jee Mains with 99.18% percentile** reflecting problem-solving skills. Aug'22
- Silver Medal**, Achieved a prestigious rank within the top **3%**, placing **150th** out of over **5000** teams globally, in the highly competitive LLM Detect AI-Generated Text competition on **Kaggle**. Jan'24 [Certificate](#)
- 1st Position in D.I.S.R.U.P.T E-cell IIT Mandi**: Won the event focusing on case studies of product and presenting innovative ideas to enhance the product that improve the products marketability. Oct'22

POSITIONS OF RESPONSIBILITY

- Coordinator of the IIT Mandi Lawn Tennis Club**, Represented IIT Mandi in the Inter-IIT Sport Meet. Aug'23-Aug'24
- Core Team Member for Planning and Management Team**, Largest fest of Himalayas (Exodia'23) Feb'23-May'23