

# PRIYANSHI LOHANI

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## Education

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**Banasthali Vidyapith, Jaipur**

*B.Tech in Computer Science and Artificial Intelligence*

*Aug. 2022 – May 2026*

CGPA: 8.0

## Relevant Electives and Study Projects

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Data Structures, Design and Analysis of Algorithms, DBMS, Artificial Intelligence, Machine Learning, Web Development, Deep-Learning, Natural Language Processing, Image Processing, Computer Vision

## Technical Proficiency

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- **Languages:** C/C++, Java, Python, Next.js, CSS, SQL, HTML, JavaScript
- **Frameworks:** React, Node.js, LangChain, TensorFlow
- **Developer Tools:** Linux, MATLAB, Git

## Projects

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### Document Chatbot | *Python*

- AI-powered chatbot that processes PDF files and answers queries based on document content.
- Uses **LangChain** and **PyPDF2** to extract text, convert it into vectors, and store in **FAISS**.
- Employs **Hugging Face** models and **Pinecone** for query understanding and content-based responses.

### AI Text Editor | *Python*

- Intelligent text editor that summarizes documents and provides context-aware suggestions.
- Utilizes **Sentence Transformers** (MiniLM) for semantic similarity and **BART** for text summarization.
- Uses **Cosine Similarity** to identify and summarize relevant document chunks.

### DocAssist | *Next.js, Flask, Python, MongoDB*

- Developed a website using **Next.js** with user authentication using **JWT tokens** and **MongoDB**.
- Integrated various features:
  - \* Document Chatbot: Allows users to interact with documents, powered by **LangChain** and **PyPDF2** for document processing.
  - \* AI Text Editor: Summarizes documents and provides context-aware suggestions using **Sentence Transformers** (MiniLM) and **BART**.
  - \* OCR: Extracts text from images using **Pytesseract** and **Pillow**.
  - \* Paraphraser: Rewrites text using **Transformers** and **LanguageTool Python**.
  - \* Research Paper Template: Converts randomly formatted text into structured IEEE research paper in PDF format using **NLTK** for **natural language processing**. Implements intelligent section detection (e.g., Abstract, Introduction, Methodology) and reorders content according to IEEE guidelines. Integrated **pdflatex** to dynamically convert **LaTeX** templates to IEEE-formatted PDFs.
- Integrated all Python-based functionality with the frontend using **Flask** and error handling, and cross-origin support via **Flask-CORS**.

### Fire and Smoke Detection System | *Python, OpenCV, TensorFlow, MobileNetV2, Matplotlib*

- Developed a fire and smoke detection system using **image processing**, **computer vision** and **deep learning**.
- Implemented fire segmentation using HSV and YCbCr color spaces.
- Motion detection through frame differencing, optical flow, and background subtraction.
- Estimated the fire-affected area using contour detection and pixel-based measurements, and visualized results with overlays for real-time analysis
- Used edge detection, Local Binary Patterns, and a fine-tuned **MobileNetV2** model for smoke detection.

## Programmes

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### Flipkart Girls Wanna Code

Covered the Modules by Flipkart's Mentors : Data Structure and Algorithms, Greedy Algorithm, Dynamic Programming.