

# Kundan Krishna

+91 92895 97569    ✉ kundan.krishna366@gmail.com    🌐 kundankrishna.engineer  
🌐 linkedin.com/in/kundan-krishna366    🐙 github.com/Kundan-Krishna366

## EDUCATION

### Jaypee University of Information Technology

*Bachelor of Technology (B.Tech), Computer Science and Engineering*

Solan, Himachal Pradesh

2024 – 2028

- **CGPA:** 7.91/10.0

## RELEVANT COURSEWORK

Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Operating Systems, AI/ML

## EXPERIENCE

### Open Source Contributor

March 2026 – Present

*withoutBG* | 1.2k+ Stars on GitHub

🔄 Merged PR

- Fixed image upload failures for iOS users caused by unsupported HEIC/HEIF formats and missing EXIF orientation handling, which had caused photos to fail uploading or render upside-down/sideways.
- Integrated **pillow-heif** for native HEIC/HEIF decoding and applied EXIF-based orientation correction using `ImageOps.exif_transpose`, standardizing all inputs to RGBA before AI model inference.
- Authored the fix with Google-style docstrings per the project's contribution guidelines; merged into a production repo with 1.2k+ GitHub stars.

## PROJECTS

### HiddenTalk | *Next.js, TypeScript, Elysia.js, Redis, WebSockets*

🌐 Live

- Developed a full-stack real-time anonymous chat platform using **Next.js**, **Elysia.js**, and **TypeScript**, supporting concurrent messaging across multiple chat rooms.
- Implemented low-latency messaging using **Redis Pub/Sub** and **WebSockets**, cutting chat room load time from 7–9 seconds to under 1 second on the live deployment, verified via browser network tab before and after the fix.
- Optimized backend APIs and session management to support secure, concurrent real-time communication across multiple chat rooms.

### DocsRAG | *Python, LangChain, FAISS, Ollama*

🔄 Repository

- Built a multi-format Retrieval-Augmented Generation (RAG) system enabling natural language querying across PDFs, DOCX, and TXT files.
- Implemented document chunking, semantic retrieval with **FAISS**, and context-aware response generation using **LangChain**, **Hugging Face Embeddings**, and **Ollama**.
- Grounded LLM responses in retrieved document context rather than relying on model memory alone, reducing unsupported/fabricated answers compared to direct LLM querying.

## TECHNICAL SKILLS

**Languages:** C++, JavaScript, Python, TypeScript

**Frameworks:** Next.js, React, Node.js, Elysia.js, Express.js, FastAPI

**Databases:** MongoDB, MySQL, PostgreSQL, Redis

**Cloud & Tools:** AWS, Docker, Git/GitHub, Linux, Postman, LangChain

## LEADERSHIP & ACTIVITIES

- **Smart India Hackathon (SIH):** Led development teams in SIH 2024 and SIH 2025, coordinating task allocation and technical implementation under tight deadlines.
- **TIEDC & ACM-JUIT:** Member; contributed to organizing technical workshops and student engagement events.