# Raj Verma

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I'm Raj Verma, a first-year B.Tech student specializing in AI and Data Science, always pushing myself to learn, grow, and stay ahead in tech. I'm passionate about technology, particularly in AI and Data Science, and I'm always exploring new projects to develop my skills. I enjoy working on hands-on projects like SMARTDOCS, where I'm integrating AI into practical solutions. Despite being an introvert, I value building connections with like-minded individuals, and I aim to balance my academics with personal growth. I'm also keen on making a mark in the tech industry by continually learning and staying ahead of trends. Whether it's coding, exploring new tech, or sharing knowledge, I'm dedicated to pushing my limits.

## Certifications & Courses

- **Kaggle x Google AI Intensive Course (5-Day)**

  Gained practical knowledge of advanced AI techniques, including Prompting, RAG, Q&A, embedding and similarity scores, and building agents with the Gemini API.

- **Google Cloud Skill Boost – GEN AI Course**

  Completed a comprehensive course on Generative AI, focusing on LangGraph, fine-tuning models, and learning core concepts in AI.

## Workshops

- **Workshop on Basics of Web Development**

  Acquired fundamental web development skills, including HTML, CSS, JavaScript, and responsive web design.

- **Workshop on Basics of Android Development**

  Gained hands-on experience with Kotlin and basic Android app development.

# Education

**B. Tech, Poornima University, Jaipur - India (2024 - 2028)**

Currently doing major in Computer Science with Artificial Intelligence and Data Science

High School - DAV Public School , Gaya , Bihar- India (2024)

School - Gyan Bharti Residential Complex, Bodhgaya , Bihar- India (2022)

# Projects

- **SMARTDOCS (AI-integrated PDF chatbot)**
  - This project allows users to upload PDFs and interact with them through summarization, Q&A, and question generation. Raj implemented chunk division and vector embeddings using LLaMA and is integrating the Hugging Face Inference API to make it fully AI-powered.

- **College Library Management System**

  - A Python-based system with a Custom Tkinter GUI and SQLite3 backend. It allows students to log in and access library services, while admins have full control over the library data.

- **Self-Healing Code Compiler - Currently Starting**

  - A project designed to improve compiler functionality by adding self-healing features to correct minor errors in the code automatically.

# Skills

- **Programming Languages:**

  - Python

  - Kotlin

  - C/C++

- **Web Development:**

  - HTML, CSS, JavaScript

  - Basics of web development

- **AI & Machine Learning:**

  - LLaMA embeddings

  - Hugging Face API

  - LangGraph (Function calling and building agents)

  - Google Search Ground

  - Keras for classifying embeddings

  - Fine-tuning custom models

  - Knowledge of Generative AI tools

- **Android App Development:**

  - Kotlin for Android Development

- **Databases:**

- SQLite3 (Backend for the College Library Management System)

- **GUI Development:**

  - Tkinter or Custom Tkinter (for building the College Library Management System)

- **Other:**

  - Problem-solving skills in coding and debugging

  - Self-learning and staying updated with the latest tech trends