Prins Kanyal

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Summary

Highly capable Computer Science student with a solid grounding in AI, Machine Learning, and MERN FullStack Development. Experienced in creating robust real-time applications and IoT solutions, demonstrating the ability to deliver significant projects within team settings and under demanding conditions. Enthusiastic about applying technical and problem-solving abilities to innovative challenges in the tech sector.

Education

Graphic Era Hill University, B.Tech in Computer Science and Engineering   2023 – 2027

- CGPA: 8.01 / 10.0
- **Coursework:** Data Structures and Algorithms, Cybersecurity, Machine Learning, IoT Systems

Army Public School, High School (CBSE)   2022 – 2023

Experience

Developer Intern, Garvish Marketing Pvt. Ltd.   May 2025 - Present

- Collaborated effectively within remote agile sprints, driving team-based development and project milestones.
- Successfully deployed a responsive Progressive Web Application (PWA), resulting in a 60% reduction in page load times.
- Designed and implemented a comprehensive IoT asset tracking solution.

Projects

AI-Powered Medical Document Chatbot

- Full-stack AI chatbot for analyzing medical PDFs using semantic search and LLMs.
- Used OCR (Tesseract), vector embeddings (HuggingFace), and LangChain for context.
- Built React frontend with real-time chat, PDF upload, and multi-chat support.
- Stack: React, Flask, MongoDB, LangChain, HuggingFace, Ollama, Tesseract OCR

Secure File Transfer Tool

- GUI-based Python app for encrypted file transfers using AES-CBC with PBKDF2.
- Includes real-time progress, speed tracking, and robust error handling.
- Built using Tkinter, sockets, threading, and packaged via PyInstaller.
- Stack: Python, Tkinter, cryptography, sockets, PyInstaller

Chess Screen Detection

- Built a real-time chess assistant that detects chessboards from screen captures.
- Integrated OpenCV for board recognition and Stockfish for optimal move suggestions.
- Stack: Python, OpenCV, Stockfish

Technologies

Programming Languages: Python, Java, C++, C, JavaScript, SQL

AI & Machine Learning: TensorFlow, Scikit-learn, NLP, Pandas, NumPy, HuggingFace, LangChain

Computer Vision: OpenCV, Tesseract OCR, YOLO (v5/v8)

Web Development: React, Flask, FastAPI

Tools & Platforms: Git, MongoDB, Microsoft SQL Server

Soft Skills: Communication, Teamwork, Problem Solving

Certifications

- Gen AI Study Jams – Google Developers
- AWS Cloud Practitioner Essentials
- NPTEL - Cloud Computing
- NPTEL - DBMS

Extracurricular Activities

- Member, Google Developers Group (Campus)
- Core Member, IEEE GEHU Student Branch.
- Active Member, Codev Club– Mentored juniors and conducted programming workshops.
- Actively participated in campus and national-level hackathons to develop innovative tech solutions