PRASHANT BANSAL

COMPUTER SCIENCE ENGINEERING STUDENT

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SUMMARY

B.Tech Computer Science student specializing in AI/ML with hands-on experience in real-time computer vision, LLM-powered chatbots, and full-stack web applications. Quick learner with strong problem-solving skills and a passion for building impactful AI projects.

EDUCATION

BTech CSE AIML
SRM Institute of Science & Technology, UP
Aug 2023 - May 2027

Class XII
K.D.B Public School, UP
April 2022 - April 2023

Class X
K.D.B Public School, UP
April 2020 - April 2021

CERTIFICATIONS

- MongoDB Developer's Toolkit (GeeksforGeeks: June 2025)
- AI Fundamentals (IBM-SkillsBuild: April 2025)
- HackerRank gold badge (5 stars) in python
- Database Management System (Great Learning: June 2023)
- Introduction to Artificial Intelligence (Great Learning: June 2023)
- Front End Development- CSS (Great Learning: March 2023)
- Front End development HTML (Great Learning: March 2023)
- Data Science with Python (Simplilearn: March 2023)
- Excel for Beginners (Great Learning: March 2023)

PROJECTS

College FAQ Chatbot (Gemini Pro, LangChain, Streamlit)
Developed an AI-powered chatbot using Gemini Pro, LangChain, and FAISS to answer college-related questions with real-time responses through a custom Streamlit interface.

Real-Time Object Detection Projects (YOLOv8, OpenCV, Python)

- **PPE Detection System:** Built a real-time object detection system using YOLOv8 and OpenCV to detect safety gear like helmets, masks, and vests from live camera feeds.
- **Car Counter System:** Designed a YOLOv8-based car counter that detects and counts vehicles crossing a virtual line in video streams using OpenCV.

Face Mask Detection Model CNN (Tensorflow, OpenCV)
Implemented a CNN-based classifier with OpenCV and TensorFlow to detect face mask usage in real-time webcam input.

OpenCV Project Series – Real-Time Computer Vision (Python, OpenCV, NumPy)
Built 3 real-time computer vision projects using OpenCV and webcam integration:

- **Virtual Paint:** Draw on screen using hand gestures and color detection.
- **Number Plate Detector:** Detects license plates in live video using haarcascades.
- **Document Scanner:** Scans a photo by detecting edges and applying perspective transformation.

Task Manager web application (MERN Stack)
Built a full-stack task manager with user auth, task CRUD, and email/WhatsApp reminders using MERN stack.

Amazon Clone (HTML and CSS)
Developed a static Amazon-inspired e-commerce homepage using HTML and CSS with responsive design.

Tic Tac Toe and Rock, Paper, and Scissors game (HTML, CSS, and JavaScript)
Created interactive browser-based games with JavaScript logic and responsive UI.

Desktop Assistant (Python)
Developed a voice-controlled desktop assistant using Python to perform basic system and web tasks.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, JavaScript
- **Web Dev:** HTML, CSS, Node.js, Express.js, React.js
- **Databases:** MySQL, MongoDB
- **AI/ML:** TensorFlow, OpenCV, YOLOv8, LangChain, Gemini Pro
- **Tools:** Git, GitHub, Streamlit, VS Code, Google Colab, FAISS