Harpreet Kour

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Education

VIT Bhopal University,	Bhopal-Indore Highway Kothrikalan, Sehore Madhya Pradesh – 466114
Integrated M.Tech in AI Computer Engineering	
CGPA: 9.15	2022 - 2027

Projects

hindi-ai-assistant : Full-stack Hindi AI assistant integrating speech-to-text, rule-based/LLM response generation, text-to-speech, and real-time face detection with Streamlit UI for seamless multilingual conversational AI. (November 2025)

Smart-Meeting-Intelligence : AI-powered meeting intelligence platform that automates transcription, real-time analysis, and actionable insights extraction from business conversations using Python backend and JavaScript frontend. (July 2025)

SmartHelmet-Alcohol_and_Drowsiness_Detection : IoT-based Smart Helmet Safety System that detects alcohol consumption and drowsiness in real-time using MQ-series alcohol sensors and MPU6050 motion tracking to enhance rider safety. (August 2025)

QRStatus : Real-time QR code detection and decoding tool built with TypeScript that enables instant recognition and data extraction from live camera feeds for applications like attendance tracking, inventory management, and event verification. (August 2025)

Predicting-E.-coli-Presence-and-Resistance-in-Environmental-Samples-Using-Machine-Learning-Models : (forthcoming in a future issue of African Journal of Biomedical Research) (August 2025)
Machine learning models to predict E. coli presence and antibiotic resistance patterns in environmental samples, enabling rapid water quality assessment and public health risk mitigation.

Transform-Knowledge-into-Memory-Palaces : Comprehensive Python test suite validating AI-powered Memory Palace API for document processing, concept extraction, knowledge graph generation, and spatial memory visualization workflows. (September 2025)

crop-disease-edge-ai : Developed a real-time Edge AI system for crop disease and nutrient deficiency detection using lightweight ML models deployable on resource-constrained devices. (November 2025)

MERNStack : Developed a full-stack web application using MongoDB, Express.js, React.js, and Node.js (MERN) to demonstrate CRUD operations, RESTful backend, and dynamic front-end integration. (November – December 2025)

Certification

Google Cloud Innovator	(December 2025)
Generative AI Mastermind Program By Outskill	(November 2025)
Introduction to Generative AI by SkillBuild	(November 2025)
Introduction to Generative AI by Google	(November 2025)
Introduction to Large Language Models by Google	(November 2025)
Introduction to Responsible AI by Google	(November 2025)
Prompt Design in Vertex AI Skill Badge by Google	(November 2025)
Responsible AI: Applying AI Principles with Google Cloud by Google	(November 2025)
Certificate of Participation in IdeationX 2.0 by Unstop	(October 2025)
Certificate of Participation in WWT Unravel 2025 by Unstop	(October 2025)
TVS Credit EPIC 7.0 – IT Challenge by TVS Credit Services Ltd.	(September 2025)
Tata - GenAI Powered Data Analytics Job Simulation by Forage	(September 2025)
Deloitte Australia – Technology Job Simulation by Forage	(August 2025)
Artificial Intelligence For Beginners by Alison	(January 2025)

Additional

Technical Skills: Python, Java, C++, SQL, HTML/CSS, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Jupyter, Team Management, Decision Making, Git, GitHub, AWS, Django.

Academic Achievements:
- Participated in HackRx 4.0 Hackathon by Bajaj Finserv, developing an Android app for forgery document detection using machine learning.
- Completed NPTEL Cloud Computing course with Elite + Silver rank, demonstrating proficiency in cloud technologies.
- Attended one-week AI innovation program focused on building real-world AI applications.

Volunteer Experience:
- AI Club – VIT Bhopal University: Volunteered to promote AI awareness by organizing workshops, seminars, and collaborative events.
- Mood Indigo – IIT Bombay: Supported event outreach, promotion, and coordination for India's largest cultural festival.