

Kartik Kumar

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EDUCATION

- **Thapar Institute of Engineering & Technology**
• *B.E. - Computer Engineering; CGPA 8.34/10*

Patiala, Punjab
July 2020 - June 2024

SKILLS SUMMARY

- Machine Learning GenAI with LLM (Intermediate), OpenCV (Intermediate), NLP (Basics), Deep Learning (Basics)
- Programming Languages Python, C++, SQL

EXPERIENCE

- **Tata Elxsi** Bengaluru
• *GenAI Engineer*
 ○ Deployed AI-driven test case automation for **system testing**, improving test coverage by 25% and streamlining validation processes.
 ○ Automated **unit test case generation** using Generative AI, reducing manual effort by 40%, increasing bug detection by 30%, and enhancing overall software reliability.
 ○ Created intelligent scripts to simulate complex real-world scenarios, reducing deployment time by 15% and improving operational efficiency.
 ○ Technical skills in Python, GenAI, CrewAI, GraphRAG, LightRAG, Langchain, AWS Bedrock and LLM'S.
- **Summit Technology Group (STGI)** Chandigarh
• *Business Analyst Intern*
 ○ Led the development and deployment of a critical project module within a one-week timeline, achieving seamless integration with the broader system.
 ○ Conducted rigorous **quality assurance testing**, resulting in 100% compliance with project specifications and a 20% improvement in performance metrics.
 ○ Coordinated with **cross-functional teams**, ensuring clear communication, timely delivery, and alignment with project objectives under high-pressure deadlines.
 ○ Soft skills in Leadership, Collaboration, Time Management and Problem Solving.

PROJECTS

- **Gait Analysis:** Developed a machine learning algorithm capable of identifying individuals based on unique gait patterns, achieving an accuracy improvement of 20% over existing methods.
 ○ *Tech-Stack: TensorFlow, Keras, Random Forest Classifier, PyQt6.* 2023
- **Spotify Billboard Prediction:** Built a predictive analytics model to forecast the Billboard success of Spotify songs, achieving over 85% accuracy and improving recommendation efficiency by 15%
 ○ *Tech-Stack: PyCaret, Extra Trees Classifier.* 2022
- **AI-Based Surveillance System:** Engineered a real-time traffic monitoring system using computer vision, enabling accurate traffic density analysis and reducing manual reporting errors by 25%.
 ○ *Tech-Stack: OpenCV, YOLO, NumPy, Pandas.* 2022
- **Advanced Attendance System:** Designed a facial recognition-based attendance system with voice-enabled queries, reducing manual tracking time by 40% and enhancing ease of use.
 ○ *Tech-Stack: OpenCV, Face Recognition, Pandas, pyttsx3.* 2021

KEY ACHIEVEMENTS & CERTIFICATIONS

- **Certificate of Completion - Generative AI using Large Language Models:** Completed an advanced course on Generative AI by Deeplearning.AI, gaining expertise in cutting-edge AI technologies.
- **Course Certificate - Prompt Engineering for ChatGPT by Vanderbilt University:** Earned a certificate for prompt engineering, demonstrating advanced skills in crafting effective AI prompts.
- **College Winner - Tata Teleport 2023:** Secured the top position in a competition conducted by Tata Elxsi, showcasing innovative problem-solving skills.
- **Top 5 - Kaggle Data Scientist Competition (Stocks Dataset from Numer.ai):** Achieved a top 5 ranking in a highly competitive Kaggle competition, focusing on stock market prediction.
- **Recipient of T.I.E.T Merit Scholarship:** Awarded the prestigious merit scholarship for outstanding academic performance during the 2020-2021 academic year.

POSITIONS OF RESPONSIBILITY

- **Administrative Secretary - OWASP Thapar Student Chapter:** Pioneered a Coding Culture initiative at the college, empowering over 250 students to embark on their technical journeys.