

Vinay Kumar

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SUMMARY

As an AI-focused developer and proficient Python programmer, I'm currently advancing my technical foundation through a B.Tech program at K.R. Mangalam University. My work sits at the intersection of machine learning and web development, where I build intelligent systems, integrate NLP models, and design secure, scalable applications. I'm driven by a deep interest in using modern AI technologies to create practical, high-impact solutions.

CORE COMPETENCIES

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|---------------------|-----------------|-------------------|
| • AI/ML Development | • RAG & NLP | • Computer Vision |
| • API Development | • Generative AI | • Vector Search |

SKILLS

- **Languages:** Java, Python, MySQL, HTML, CSS
- **Technical Skills:** Machine Learning, RAG, NLP, DBMS, OOPS, Operating System
- **Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, React.js, Streamlit, Sentence Transformers, LLM, OpenCV
- **Databases:** SQL, Supabase, FAISS (Vector Database)
- **Developer Tools:** Jupyter Notebook, Colab, VSCode, GitHub

WORK EXPERIENCE

AI/ML Intern – TheSmartBridge

Jan 2026 – Present

- Developed and evaluated various ML and DL models.
- Developed REST APIs using FastAPI.
- Worked on Generative AI projects using LLMs such as Gemini, Llama 3.

EDUCATION

- **Bachelor of Technology in Computer Science Engineering**
K.R Mangalam University, Gurgaon

CGPA: 7.91 | 2022 – 2026

PROJECTS

CodeX Intelligence Hub | ([GitHub](#))

(Technologies used: Python, Streamlit, Sentence Transformers, FAISS Vector, GenAI, RAG, LLM)

- Built a high-performance RAG system using FAISS + Sentence transformers with Llama-3.3 (Groq) for real time semantic search, Code generation, refactoring and multilingual translation.
- Engineered A secure ai platform featuring an execution sandbox with performance analytics a premium streamlined dashboard a voice-to-Code input Learning road map and automate retraining pipeline.

Exameye Shield – Automated Exam Proctoring System | ([GitHub](#))

(Technologies used: Python, React, FastAPI, Supabase, OpenCV, MediaPipe, YoloV8, Websocket)

- Built an AI based exam proctoring system with MediaPipe yoloV8 and audio analysis with multimodal violation detection for accurate real time monitoring.
- Develop a scalable fastAPI + WebSocket + Supabase beckened with React/typescript/Tailwind dashboard supporting 100+ users, life alerts and automated pdf csv reporting

GenAI-powered enterprise intelligence assistant integrating | ([GitHub](#))

(Technologies used: Python, TensorFlow, Jupyter Notebook, Sentence Transformers, LLM, RAG, Streamlit)

- Developed a GenAI-powered enterprise intelligence assistant integrating LLMs, multi-functional AI agents, and NLP pipelines for automated knowledge retrieval, business insights, and intelligent task execution.
- Achieved high validation accuracy using transfer learning and data augmentation. Engineered a scalable AI assistant platform with API integrations, conversational interfaces, and enterprise workflow automation, enabling context-aware decision support and productivity enhancement.

ACHIEVEMENTS AND CERTIFICATIONS

- **Certifications:** Udemy- Complete Python Pro Bootcamp
- **Soft Skills:** Problem Solving, Adaptable, Quick Learner, Team Player
- **Workshop:** AI and Drone Technology, IIT Mandi (Certificate: Drone Technology Bootcamp, C.O.E .in AI,IIT Mandi)