Kanishk Shukla

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EDUCATION

Vellore Institute of Technology Bhopal   Bhopal, India
*B.Tech. in Computer Science Engineering | **GPA: 8.87/10.00***   *Sep 2022 – Jun 2026*

EXPERIENCE

Ernst & Young (EY)   Gurugram
GenAI Project Intern   *May 2025 – Present*

- Created and optimized 5+ multilingual Generative AI workflows using **Python, LangChain**, and **HuggingFace**, improving LLM accuracy by 25% across cross-lingual tasks
- Spearheaded a RAG system featuring pluggable tools like **OCR** , calculators and featuring **YAML**-driven configuration, increasing the number of supported document types and configuration capabilities, enhancing the system's ability to process complex queries.
- Built a robust ingestion pipeline that automates document loading from local file systems or S3, text splitting (LangChain's), embedding generation, and **upsertion** into **vector stores**—ensuring scalable, production-ready indexing
- Harnessed **Retrieval-Augmented Generation (RAG)** pipelines with **FAISS vector database** to enhance contextual responses
- Deployed AI workflows using Jupyter Notebooks, VS Code, and containerized environments on GCP and AWS.

PROJECTS

Webloom AI | *Python, FastAPI, LangChain, Convex, Firebase, Vercel*   March, 2025

- **Description**: Developed **four modular automation pipelines** for **code generation** and **layout synthesis**, significantly improving **website creation efficiency** and achieving a **95% reduction** in manual development workload.
- Enabled seamless user experience with an embedded code **sandbox** for **AI** code editing and preview, direct deployment and a one-click code download option, reducing development time of full-stack websites from hours to under **3 minutes**
- Integrated token-based pay-as-you-go system with secure API authentication, enabling **30%** cost reduction
- Deployed on **Vercel**, enabling one-click publishing; included code preview/editing sandbox and auto-download features

Aiden AI Agent | *Python, FastAPI, React, LangGraph, LangChain, Google Gemini Live API*   May, 2025

- Description: Engineered an AI Voice Agent leveraging Google's Gemini Live API for real-time call scheduling and calendar management; Agent now handles 80% of routine scheduling tasks.
- Established **FastAPI** endpoints for **Telegram, Slack**, and **WhatsApp** (via **Twilio** & **Ngrok**), enabling seamless bi-directional text and voice interactions using OpenAI Whisper for STT and Cartesia TTS
- Achieved an agent framework supporting customizable personalities, memory, and voice interactions, optimized for **124m**s low-latency performance and concurrent sessions
- Integrated core services—**Google Calendar API, Gmail API, Notion Client SDK**, and **Tavily Search API**—to automate event scheduling, email tasks, to-do list management, and real-time web research

Deep-Fake Detection System | *Python, OpenCV, TensorFlow, Matplotlib, Seaborn*   November, 2024

- Utilized **OpenCV, TensorFlow**, and **blazeface** for feature extraction and facial landmarks analysis, achieving 97% model accuracy with a **12%** reduction in **false positives** over baseline
- Automated training workflows for over 8,000 video samples, improving processing speed by 60% and reproducibility of deepfake results
- Employed **Matplotlib** and **Seaborn** for real-time performance visualization and misclassification heatmaps

CERTIFICATIONS & ACHIEVEMENTS

- Top 11 Finalist in **Ernst & Young Techathon 5.0**, selected from over 150,000 registrations.
- Solved 350+ problems on LeetCode; reached a peak rating of **1609**
- Secured a maximum rating of **1481** on CodeChef
- 1st Runner-up, VIT Unplugged Hackathon – Excelled in a 14-hour competitive hackathon
- Winner, 'Evolve' Competition – Awarded **1st** place for Generative AI and ML model development
- Top 50, **Tata Elxsi Teliport Season 2** – Selected among 17,000+ participants
- Top 41 **TBO** VoyageHack 2.0 – selected amongst 14,000+ entries
- NPTEL Cloud Computing (Silver Medalist)
- Top 5 **Adobe GenSolve**

TECHNICAL SKILLS

Languages: Python (Advanced), Java, SQL, C/C++, JavaScript
Technologies: LangChain, Streamlit, Gradio, Vector DBs (FAISS, Chroma), RAG, HuggingFace, OpenCV, GCP, Docker, Kubernetes, CI/CD, FastAPI, REST APIs
Methodologies: Data Structures, OOP, Algorithms, Database Management, Operating Systems, Computer Networks