

Kanishk Shukla

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EDUCATION

Vellore Institute of Technology Bhopal

B.Tech. in Computer Science Engineering | GPA: 8.90/10.00

Bhopal, India

Sep 2022 – Jun 2026

EXPERIENCE

Ernst & Young

Software Development Intern

Gurugram

May – August 2025

- Designed and deployed **scalable GenAI pipelines** across **AWS, GCP, and Azure** using **Docker, Kubernetes, and Linux-based systems**, ensuring high availability and fault tolerance.
- Built **automated data ingestion and document processing systems** with **Python, Airflow, and S3**, improving throughput and reliability for **large-scale data handling**.
- Developed **YAML-driven configuration frameworks** for dynamic AI workflows, reducing manual effort and enabling **distributed, reusable pipelines**.
- Automated **ERP workflows** with **LangChain, SAP APIs, and OpenAI models**, cutting manual process testing by 66% and standardizing real-time agent field reporting.
- Collaborated with cross-functional teams to integrate **APIs, cloud-native applications, and version control systems**, ensuring secure deployment in **high-frequency distributed environments**.

PROJECTS

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

March, 2025

- Description:** Built scalable APIs to automate website generation with a pay-as-you-go token system and sandbox environment. Deployed a microservices architecture on the cloud (Vercel), reducing manual deployment overhead by 95%.
- 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 frontend 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: Implemented 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 **124ms 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.
- Designed backend logic for low-latency voice assistant automating scheduling using FastAPI & Google Calendar API.

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

November, 2023

- Engineered a secure and **scalable computer vision pipeline** integrating **OpenCV, TensorFlow, and BlazeFace**, achieving **97% accuracy** with **12% lower false positives** in video-based facial landmark detection.
- Researched and Automated **MLOps pipelines** for preprocessing, augmentation, and retraining on **8,000+ video samples**, reducing training cycles by **60%** and ensuring reproducibility in distributed systems.
- Optimized **Convolutional Neural Networks (CNNs)** with GPU acceleration and multi-threaded data loaders, enabling **real-time inference** in **streaming environments** with sub-second latency.

CERTIFICATIONS & ACHIEVEMENTS

- Top 11 Finalist in **Ernst & Young Techathon 5.0**, selected from over 150,000 registrations.
- Solved 500+ problems on [LeetCode](#); reached a peak rating of **1623**.
- Secured a maximum rating of **1501** 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.
- Certified **OCI DevOps** and **OCI Generative AI** developer.
- Top 5 **Adobe GenSolve**.

TECHNICAL SKILLS

Languages: Python, Java, SQL, C/C++, JavaScript

Technologies: LangChain, Streamlit, Gradio, Vector DBs (FAISS, Chroma), RAG, HuggingFace, OpenCV, GCP, Docker, Kubernetes, CI/CD, FastAPI, REST APIs, Automation Testing, Git, Redis, Apache Spark, Airflow, Azure, AWS, MongoDB

Methodologies: Data Structures, Algorithms, OOP, Database Management, Operating Systems, Computer Networks, software development, System Design, Agile/Scrum, Version Control, Microservices Architecture