

Ayush Kumar Dubey

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Experience

AI Intern - Infosys Springboard | Python, Langchain, RAG, Neo4j

[Jan 26 – Mar 26]

- Architected an AI-powered Enterprise Intelligence Hub utilizing GraphRAG to analyze support tickets and eliminate LLM hallucinations.
- Engineered a custom Pandas ETL pipeline and implemented a Native Vector Index in Neo4j, optimizing data synchronization.
- Built an interactive dashboard featuring live KPIs, dynamic network graph visualization, and a conversational Llama-3 copilot via LangChain.

Junior Backend Intern - Pented Styles | Python, Genimi AI, REST API

[Mar 25 – May 25]

- Worked on an AI-powered virtual try-on platform inspired by Googles AI Shopping experience.
- Built backend APIs for 3D model texture mapping using UV-wrapped mannequins.
- Engineered precise saree-draping logic by aligning textures to mapped model regions.

Open Source Contribution - Hacktoberfest '23, GSSoC '24 '25, WoB '24, SSoC '25

- Contributed to diverse projects involving Python, Google Maps API, and REST integrations.
- Improved API performance, resolved bugs, and enhanced technical documentation for developer onboarding.

Projects

KIRA(Kernel Integrated Response Assistant)AI Assistant | Python, Gemini LLM, PyQt6, SQLite | [GitHub](#)

- Built a voice-activated Linux AI assistant for natural-language system control and desktop automation.
- Engineered a hybrid edge-cloud architecture using the Gemini API for high efficiency on low-RAM hardware.
- Reduced command latency by building a custom local intent-routing engine.
- Integrated a local SQLite database to enable persistent conversational memory and context awareness.
- Developed an asynchronous PyQt6 GUI featuring multithreading and real-time state animations.

VidNotes YouTube Video Notes Summarizer | Python, Streamlit, Gemini API | [GitHub](#)

- Summarizes YouTube videos into structured notes using Streamlit and Gemini API.
- Reduced watch time by 45% while boosting learning outcomes with concise summaries.

Scan Ease Resume ATS Score Analyzer | Python, Streamlit, Gemini API | [GitHub](#)

- Analyzes resume compatibility with ATS systems using NLP and Gemini API.
- Offers personalized suggestions to improve shortlisting chances by 30–50%.

SSTV(Slow Scan Television Tool) | Python, Streamlit, SciPy | [GitHub](#)

- A tool that decodes SSTV audio signals to images and images into audio signal.

Skills

Languages: Python, C, C++

Libraries & Tools: Streamlit, TensorFlow, NumPy, Pandas, OpenCV, Matplotlib, Postman

Cloud & DevOps: Docker, Kubernetes (K8s), AWS (EC2, S3), Git, GitHub, CI/CD Pipelines, Linux(Debian)

Concepts: Data Structures, Algorithms, REST APIs, Networking Basics

Education

B.Tech in Computer Science Engineering (AI & ML)

[Kalinga University, Raipur 2023 – 2027]

- Relevant Coursework: DSA, OS, DBMS, AI, ML, IoT, NLP, Blockchain, Cloud Computing

Certification & Activities

Secured 3rd position in IBM Ideathon. Participated in AI webinars, job simulations (Cisco, Infosys, EA), and national-level hackathons.

- Certified in Web Development (SIDH), API Testing (Postman), IoT (TSSC), Cyber Security (Tech Mahindra), Financial Literacy (NSDC), and AI/ML courses from Infosys Springboard.