KUSHAGRA VYAS

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. CSE	Indian Institute of Information Technology, Nagpur	**7.46**	2022–2026
Class 12	Jawaharlal Nehru School, Bhopal	**91.2%**	2021–2022

Experience

Agentic AI Intern   **May 2025 – Present**
Startrit   *Remote*
- Developed agentic AI pipelines for schema extraction, validation, preprocessing, and ML model inference using Databricks endpoints.
- Worked on credit scoring prediction models and intelligent document processing systems.
- Built multiple agents such as Data Analyst and Graph Generator to automate workflows.

Artificial Intelligence and Machine Learning Intern   **May 2025 – June 2025**
Elevate Labs   *Remote*
- Completed a hands-on internship focused on AI and ML techniques, contributing to real-world projects.
- Demonstrated strong analytical thinking, problem-solving, and professionalism throughout the internship.
- Recognized as a **Best Performer** for exceptional dedication and execution.

Projects

PDF Question Answering with Hugging Face and Llama-3 ⭕   **Feb 2025**
- It is difficult and time-consuming to find specific information inside long PDF documents.
- Built a AI Chatbot where users can upload a PDF and ask questions to quickly get relevant answers.
- This is useful for students, researchers, and professionals working with large reports or study material.
- Used Llama-3 and Hugging Face for understanding content, LangChain and FAISS, RAG for fast searching and retrieving answers.

Subway Surfers Game Control using Hand Gestures and Voice ⭕   **Apr 2025**
- Traditional gaming requires keyboard or touch, which limits accessibility and fun.
- Built a system to play Subway Surfers using hand gestures and offline voice commands.
- This approach makes gaming more accessible and fun without using a keyboard or touchscreen.
- Used MediaPipe and OpenCV for gesture recognition, Vosk for voice detection, and PyAutoGUI for simulating keyboard inputs.

Text to Math Problem Solver using Google Gemma 2 ⭕   **Feb 2025**
- Students often find it difficult to solve word problems in mathematics.
- Built an AI Chatbot tool that understands math word problems and provides step-by-step solutions.
- This helps in education platforms, online tutoring, and homework support systems.
- Used Google Gemma 2 for text understanding and logical reasoning, along with Wikipedia search for supporting data.

Spam Filtering using NLP ⭕   **May 2024**
- Spam messages disturb important communication and need automatic detection.
- Created a machine learning system to detect and block spam messages by analyzing their text.
- This is useful for email services, customer support chats, and messaging platforms.
- Used NLP techniques to clean text and trained Random Forest and Gradient Boosting models for spam classification.

Skills & Certifications

Languages: Python, Java, C, C++, SQL, Java, JavaScript
Web Development: Flask, FastAPI, API Integration, React.js
Databases: MySQL, SQL Query Optimization, Data Warehousing, Neo4j
AI/ML Tools: Scikit-Learn, TensorFlow, PyTorch, Hugging Face, LLM's, FAISS, Chroma, Pinecone, Langchain, Ollama, Gemini, Falcon, LLama, Palm2, NLTK, Retrieval-Augmented Generation (RAG), Fine-Tuning LLM's, Autoencoders, GANs, Transformers, BERT, Time Series Analysis, ARIMA, SARIMA, Prefect, MCP Servers, Langgraph, Presidio, Guardrails
Developer Tools: VS Code, Git/GitHub, Jupyter Notebook, MS Excel
Cloud Services: Google Cloud Platform, Amazon Web Services
Data Skills: Data Modeling, Data Mining, Segmentation Techniques, Data Architecture, Cloud Migration Concepts, Data Cleaning, Data Analysis,
Computer Vision: OpenCV, MediaPipe, Image Processing, Video Processing, YOLO
Problem Solving & Analysis: Solved 200+ problems on LeetCode (Data Structures & Algorithms), Data Analysis & Visualization, System Design
Soft Skills: Quick learner, creative thinker, strong problem-solver and analytical mindset, flexible with changes, good at teamwork and explaining ideas clearly, strong communication, self motivated, eager to learn, resourceful.
Certification: Certified by NVIDIA in Applications of AI for Anomaly Detection, demonstrating skills in building AI models to identify unusual patterns in data.