

VIVEK KUMAR

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Professional Summary

Results-driven **Data Scientist and GenAI Engineer** with over **2.8 years of experience** in delivering end-to-end AI/ML solutions, full-stack applications, and production-ready Generative AI systems. Proficient in **Python**, **LangChain**, and **LLMs**, with hands-on expertise in building and deploying real-world **Retrieval-Augmented Generation (RAG)** systems for document understanding and intelligent Q&A. Adept at applying **supervised/unsupervised learning, predictive modeling, recommender systems, and statistical analysis** to derive business insights from complex datasets.

Possesses **basic knowledge of AWS, GCP (Vertex AI), and Firebase** for model deployment and backend integration. Experienced with **GitHub Actions** and **MLflow** for managing ML workflows and lightweight CI/CD automation. Familiar with **agentic tools, multi-agent orchestration, and advanced prompt engineering** to build dynamic, responsive AI applications. Proven ability to bridge business needs with technical solutions by building intelligent, data-powered tools using robust pipelines and scalable APIs within modern tech stacks.

Education:

Maharana Pratap Engineering College, Kanpur (AKTU), India	2020 - 2023
<ul style="list-style-type: none"><i>CSE / CGPA: 7.2</i>	
Government Polytechnic Kanpur, India	2017 - 2020
<ul style="list-style-type: none"><i>Diploma in Textile Technology, Aggregate: 68%</i>	
SVM Inter college Fatehpur, India	2016 - 2017
<ul style="list-style-type: none"><i>UP Board (Class XII), Aggregate: 85%</i>	
AJI Inter college Fatehpur, India	2012 - 2014
<ul style="list-style-type: none"><i>UP Board (Class X), Aggregate: 86%</i>	

Professional Experience

Data Scientist – BotexAI Pvt. Ltd., Delhi
Sep 2022 – May 2025

- Developed GenAI solutions using LangChain, RAG pipelines, Hugging Face Transformers, and ChromaDB.
- Built custom LLM-powered apps for internal document retrieval, summarization, and FAQ generation.
- Designed and deployed REST APIs with FastAPI, containerized via Docker, and monitored through MCP Server.
- Collaborated with the R&D team to prototype and test AI-driven solutions tailored for enterprise environments.

Key Skills: Python, LangChain, Hugging Face, Transformers, RAG, ChromaDB, Agents, Agentic AI, FastAPI, GitHub Actions, MCP Server, Gemini

Professional Projects

Cognibase – RAG-Powered Enterprise Knowledge Assistant

A robust internal AI assistant designed to help enterprises search, summarize, and interact with documents intelligently.

Key Contributions:

- Implemented **RAG (Retrieval-Augmented Generation)** architecture using **LangChain** and **ChromaDB**.
 - Enabled **semantic search** and **contextual Q&A** over internal documents (PDF/DOCX).
 - Integrated with **FastAPI** for scalable API access.
 - **Containerized and deployed** using Docker for seamless use across teams.
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AutoCV – Generative AI Resume Assistant

An LLM-powered tool for automating resume writing based on user input and role-specific optimization.

Key Contributions:

- Used **OpenAI API** to generate personalized resume content from user inputs.
 - Applied **prompt engineering** techniques to maintain structure and relevance.
 - Built a clean UI and backend with **FastAPI** for quick resume generation.
 - Focused on **LLM reliability and customization**, allowing users to refine tone and style.
 - Added support for export/download of resume drafts. [Link](#)
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Freelancing Projects

Hotel Booking Website with Admin Panel and Razorpay Payment Gateway [Link](#)

- Developed a fully functional hotel booking platform with an integrated admin panel for managing rooms, bookings, and payments.
- Integrated **Razorpay Payment Gateway API** for secure online transactions.
- **Tech Stack:** HTML, CSS, JavaScript, Django, Firebase, Razorpay API

Eco-Friendly E-commerce Website with AI Chatbot [Link](#)

- Built a modern e-commerce site for eco-friendly products with **admin panel** and **user authentication**.
- Integrated an **AI chatbot** to assist users in finding products and resolving order-related issues.
- Project received a **good number of stars on GitHub** for its clean code and features.
- **Tech Stack:** React.js, Django, Firebase

VigyBag Winter of Code [Link](#)

- Developed and organized an **open-source contribution program** inspired by GSSoC, aimed at encouraging
- **students to contribute** to real-world projects during winter break.
- Managed **contributor onboarding, mentorship, issue tracking, and project reviews across multiple repositories.**
- **Helped contributors gain hands-on experience** in technologies like Python, JavaScript, React, and Git.
- Successfully received active participation from students across India, with multiple merged PRs and positive community feedback.
- **Tech Stack:** GitHub, Markdown, Python, JavaScript, React.js

Technical Skills

- **Programming & Scripting:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn), JavaScript, SQL (MySQL), MongoDB, Git, GitHub, Postman
- **Frontend Development:** React.js, HTML, CSS, Tailwind CSS
- **Backend & API Development:** FastAPI, Django, Flask, Node.js, RESTful APIs, JWT Authentication
- **AI & Machine Learning:** LangChain, HuggingFace Transformers, OpenAI (GPT-4), Google Gemini, Supervised & Unsupervised Learning, Predictive Modeling, Random Forest, XGBoost, Logistic Regression, Linear Regression, AI Workflow Design, EDA, Model Context Protocol (MCP)
- **GenAI & Agentic AI:** RAG Systems, Prompt Engineering, Agents, Agentic Tools & Architectures
- **Deep Learning:** Neural Networks, CNNs, RNNs, LSTMs, Sequence Modeling, Computer Vision, Model Training & Evaluation, Hyperparameter Tuning
- **Vector Databases:** FAISS, ChromaDB
- **Data Engineering:** ETL Pipelines (Airflow, Pandas, SQL), Data Wrangling, Web Scraping (BeautifulSoup, Selenium), Data Cleaning & Transformation, API Ingestion, Data Integration (Flat Files, Databases)
- **Cloud & MLOps Platforms:** AWS (S3, EC2, Lambda, SageMaker), GCP (Vertex AI, MLflow)
- **Visualization & Reporting:** Tableau, Streamlit
- **Workflow & Collaboration:** Agile/Scrum, Git, GitHub Actions, Documentation, Code Reviews, Stakeholder Communication, Mentoring Analysts & Junior Engineers

Leadership & Contributions

Project Lead at Girl Script Summer of Code-2023 Apr'2023

- Register my project in this open-source organization.
- Got an **opportunity to manage contributor** in my project and **finalize in the list of best project leads.**
- Manage 50+ contributors to review their code and merge their code after review.
- In this project I merged approx. 30+ PR's

Project Admin at JWOC 2023,24 Feb'2023

- After selection I got list opportunity to manage contributor and review their code.
 - In this project I merged approx. 20+ PR's
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