

PANKAJ KUMAR

AI / ML ENGINEER

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PROFESSIONAL SUMMARY

Final-year B.Tech (Data Science) graduate, **Branch Topper (8.78 CGPA)**, with **1+ year of hands-on AI/ML engineering experience** spanning end-to-end ML pipeline development, LLM integration, RAG system design, and cloud deployment on Flask/IBM Cloud. Delivered AI-powered applications leveraging **Python, Scikit-Learn, LangChain, and Generative AI**. **Research presenter at IIT Roorkee Conference 2025**. Seeking AI/ML Engineer roles — on-site, hybrid, or remote.

PROFESSIONAL EXPERIENCE

AI/ML Engineer Intern | TheSmartBridge Solutions Pvt. Ltd. · Noida

May 2026 – Present

- Developed and deployed ML models solving real-world business problems, integrating LLMs and Generative AI into intelligent applications and chatbot systems.
- Built end-to-end ML pipelines (data ingestion → feature engineering → model training → evaluation → deployment) and Flask-based REST APIs hosted on cloud infrastructure.
- Optimized model performance and scalability; created AI-powered curriculum and project documentation for enterprise education clients.

Data Science & ML Intern | Internshala — AI with LLM Program · Remote

Jan – Jul 2025

- Built end-to-end ML pipelines on 50,000+ record datasets — ingestion, feature engineering, cross-validation, deployment — boosting model accuracy by 18%.
- Automated preprocessing and reporting workflows reducing manual analyst effort by 30%; implemented LLM-integrated NLP solutions for text analytics tasks.
- Designed and fine-tuned prompt engineering strategies for LLM applications, enabling context-aware AI responses for enterprise use cases.

KEY PROJECTS

AI-Powered Policy & Process Management System (RAG) |

[Github Link](#)

Python · LangChain · FAISS · Sentence Transformers · Llama 3 · Gemini · Streamlit

- Developed an enterprise AI assistant for querying company policies and SOPs using Retrieval-Augmented Generation (RAG) with semantic search.
- Built an enterprise-grade RAG assistant enabling semantic search across company policies and SOP documents.
- Implemented PDF ingestion, chunking, embedding generation (Sentence Transformers), and FAISS-based vector similarity search for accurate document retrieval.
- Integrated Llama 3 and Gemini for source-grounded responses with citations and confidence scoring; built Streamlit dashboard with multi-doc uploads, chat history & analytics.

AI Career Mentor for Students | *Python · Streamlit · ML · NLP · Gemini API*

[Github Link](#)

- Built an AI-based career mentoring platform that analyzes resumes, recommends career paths, predicts placement readiness, and identifies skill gaps using ML + NLP.
- Integrated Gemini-powered chatbot for personalized career guidance and upskilling recommendations.

AI Health Risk Prediction Platform | *Python · Flask · Scikit-Learn · React*

[Github Link](#)

- Full-stack AI platform predicting diabetes, heart disease, and lung risk; React + Flask web app with interactive analytics dashboard deployed on IBM Cloud.

AYUSH Virtual Eco-Herbal Garden — IIT Roorkee Conference 2025 | *AI · Node.js · MongoDB · HTML/CSS/JS*

[Github Link](#)

- AI platform digitizing AYUSH herbal knowledge; research paper presented at IIT Roorkee Conference 2025 on AI, healthcare informatics, and full-stack AI development.

TECHNICAL SKILLS — AI/ML STACK

ML / AI	Python, Scikit-Learn, TensorFlow, Pandas, NumPy, Feature Engineering, Cross-Validation, Regression, Classification
GenAI / LLM	LangChain, RAG, FAISS, Sentence Transformers, Llama 3, Gemini API, OpenAI API, Prompt Engineering, AI Agents
Deployment	Flask, Streamlit, IBM Cloud, Docker, AWS (Solutions Architecture), REST APIs, Jupyter Notebook
Data / DB	SQL, MySQL, PostgreSQL, EDA, Data Validation, Power BI, Tableau, Matplotlib, Seaborn
Tools	Git/GitHub (68 repos), Jira, Agile, React.js, Node.js, HTML/CSS/JavaScript

EDUCATION

B.Tech — Computer Science & Engineering (Data Science)

2022 – 2026

Shri Ramswaroop Memorial College of Engineering & Management, Lucknow | **CGPA: 8.78 / 10** | **Branch Topper — Nirmala Award** | **IIT Roorkee Conference 2025 Research Presenter**

CERTIFICATIONS & ACHIEVEMENTS

- Machine Learning with Python — IBM '24
- AICTE-VOIS: AI/ML/Cloud Virtual Internship '25
- J.P. Morgan Quantitative Research Sim — Forage '25
- Application of Space Technology — IIRS/ISRO '25
- AICTE-Edunet Front-End Web Development '25
- AI Agents for Beginners — Simplilearn '25
- AWS APAC Solutions Architecture — Forage '25
- British Airways Data Science Simulation — Forage '25
- Saviynt Identity Security for AI Age — '25
- 68 Public GitHub Repositories