MAYANK SHEKHAR RAJ

+918969942749 | mayankshekharrajsingh@gmail.com | Linkedin | Siwan, Bihar

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PROFILE

Entry-level software engineer with strong fundamentals in Python, Java, and Data Structures, and hands-on experience in data science, NLP, and AI-driven applications. Proven ability to build practical projects involving ML pipelines, embeddings, and resume analytics. Fast learner with solid problem-solving skills, seeking opportunities in software engineering / data & AI roles.

QUALIFICATIONS

Bachelor of Technology in Computer Science & Engineering (2025):
VIT, VELLORE
CGPA : 7.9

All India Senior School Certificate Examination (2021):
BIHAR PUBLIC SCHOOL, SIWAN
Percentage : 88.6

Council for the Indian School Certificate Examinations (2019):
ST. JOSEPH'S COLLEGE, NAINITAL
Percentage : 86.6

SKILLS

- **Programming Languages:** Python, Java, C, C++, R
- **Databases:** MySQL
- **Libraries & Tools:** Pandas, NumPy, spaCy, PyTorch, Hugging Face, FAISS, Postman
- **Concepts:** Data Structures & Algorithms, OOPs, NLP, Machine Learning basics.

PROJECTS

Personalized Healthcare Recommendation System (RAG + BioBERT)
- Built an AI-based healthcare recommendation system using a **Retrieval-Augmented Generation (RAG)** pipeline.
- Implemented **BioBERT embeddings** with **FAISS** for semantic search and LLM-based response generation.
- Designed multi-stage retrieval to improve contextual accuracy.
- Achieved **high precision and sub-500 ms average response time**.
- **Tech:** Python, PyTorch, Hugging Face, FAISS

Resume Analyzer (NLP Application)
- Developed an automated resume screening tool using **NLP techniques**.
- Extracted skills, education, and experience using **spaCy**.
- Built a simple GUI and visualized insights to support HR decision-making.
- **Tech:** Python, spaCy, PyQt

CERTIFICATIONS

Python for Data Science, AI & Development – IBM (Coursera) | *January 2026*

- Python programming for data analysis and AI workflows
- Data handling using Pandas and NumPy
- Foundations of data science and ML
- Credential: **Verify Certificate**

LANGUAGES Hindi
English