

RAJAT KUMAR

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SUMMARY

Passionate AI and Machine Learning specialist with strong problem-solving skills and enthusiasm for developing innovative, scalable solutions. Skilled in designing and implementing intelligent systems that address complex challenges. Committed to continuous learning and applying cutting-edge technologies to create impactful applications. Certified in critical analysis and database design with demonstrated ability to transform ideas into practical implementations.

EDUCATION

Chandigarh Group of College, Jhanjeri, Punjab	09/2022-Present
<i>B.Tech in Artificial Intelligence & Machine Learning — CGPA: 8.7</i>	
◦ Relevant Coursework: Data Structures, Cloud Computing, NLP, Distributed Systems	
Shiv Shiksha Niketan Sr Sec School, Sanghan	2021
<i>Senior Secondary (Non-Medical) — 96.6%</i>	
Shiv Shiksha Niketan Sr Sec School, Sanghan	2019
<i>Secondary Education — 86.8%</i>	

PROJECTS

AI-Powered Career Advisor (Python/Flask)	2023
◦ NLP system providing personalized career recommendations with 85% accuracy	
◦ Integrated LinkedIn API for real-time skill gap analysis	
Weather Forecasting System (React/OpenWeatherAPI)	2023
◦ Real-time weather predictions for 200+ cities	
◦ Reduced API response time by 35%	
NLP Customer Support Chatbot (TensorFlow)	2024
◦ Achieved 91% accuracy in query resolution	
◦ Handled 500+ daily queries with sentiment analysis	
Smart Finance Tracker (Python/Django)	2023
◦ Budget prediction system with 88% accuracy	
◦ Integrated SMS alerts for expense thresholds	
MARS Rover Control System (C++/Bluetooth)	2022
◦ Designed low-latency communication protocol (98% efficiency)	
◦ Implemented obstacle avoidance algorithms using sensor fusion	

INTERNSHIPS

ACMEGRADE — AI Research Trainee	07/2024-08/2024
◦ Developed NLP models for sentiment analysis with 92% accuracy	
◦ Automated data pipelines using Python, reducing processing time by 40%	
◦ Collaborated on AI-powered recommendation systems	
IIT Kanpur — Full Stack Developer Trainee	06/2024-07/2024
◦ Developed 5+ web applications using MERN stack, improving user engagement by 40%	
◦ Integrated Payment Gateway and Google Maps APIs, reducing checkout time by 25%	

SKILLS

Programming Languages

- o Python, Java, C, C++, SQL

Web Technologies

- o **Frontend:** React, HTML5, CSS3, AJAX, Chart.js
- o **Backend:** Node.js, Express, Flask, Django, JavaScript (ES6+)

Databases

- o MongoDB, Oracle, SQL Server

Tools & Platforms

- o AWS EC2, Git, Postman, TensorFlow, Tableau

Concepts

- o REST APIs, CI/CD, Agile Development, Data Modeling, Machine Learning

Soft Skills

- o Problem Solving & Critical Thinking
- o Team Collaboration & Leadership
- o Effective Communication
- o Time Management
- o Adaptability to New Technologies

CERTIFICATIONS

- o MERN Stack Developer - IIT Kanpur 2024
- o HP Life: Data Science & Analytics 2024
- o MongoDB University: Introduction to MongoDB 2023
- o ACMEGRADE: Artificial Intelligence 2024

ACHIEVEMENTS

- o Smart India Hackathon - Developed App for direct market access for Farmers 2024
- o HackerRank Python (3-Star) 2024