

# Deepak Kumar

Ispat Nagar, Bhilai, Chhattisgarh, India

[GitHub](#) | [LinkedIn](#) | [Portfolio](#) | [LeetCode](#) | [deepak0778671@gmail.com](mailto:deepak0778671@gmail.com) | [+91-8941955754](tel:+91-8941955754)

## SUMMARY

AI/ML Engineer with hands-on experience in Computer Vision, Deep Learning, and GenAI systems, focused on building scalable end-to-end ML applications and intelligent automation workflows.

## WORK EXPERIENCE

**Computer Vision Research Intern at IIT Kanpur — On-Site** [↗](#) Jan 2025 – Jun 2025

- Built a UV 365 nm, 395 nm + NoUV imaging pipeline for plant disease detection in controlled black-box setup.
- Integrated solution on Raspberry Pi with UV LEDs + camera for scalable low-cost deployment.
- Collected and curated a dataset of 14K+ leaf images across 8 imaging classes.
- Improved model performance by **4%** by leveraging multimodal (UV + Non-UV) imaging, achieving **88.7% accuracy** on a custom dataset through training and optimization of ML/DL models.

**Deep Learning for Agriculture, CSVTU Bhilai — On-Site** [↗](#) Aug 2025 – Present

- Designed and implemented a custom deep learning pipeline for early sugarcane disease detection using agricultural data.
- Applied preprocessing, multimodel techniques to improve feature quality, robustness, generalization across disease classes.
- Trained and evaluated multi Deep Learning models, achieving 96% accuracy, nearly 5% higher than prior baseline approaches, research submitted to Springer Nature.

## PROJECTS

**JobMatchAI – AI-Powered Resume Feedback Platform** [↗](#) Mar 2026 – Present

- Built and deployed a full-stack AI platform for resume-job matching using ATS scoring and semantic similarity.
- Integrated LLM-based features (Google Gemini) for resume feedback, project rewriting, and interview preparation.
- Designed an end-to-end recruiter-style screening pipeline for scalable, real-time resume evaluation and job matching.

**RAG Multi-Document Chatbot** [↗](#) Aug 2025

- Developed and deployed a Retrieval-Augmented Generation (RAG)-based chatbot for intelligent document Q&A.
- Engineered parsing, embedding storage, and retrieval pipelines using LangChain.
- Achieved context-aware multi-document querying with citation support, enhancing accuracy and reliability.

**AirStay – Full Stack Airbnb Clone** [↗](#) Jan 2026

- Developed and launched a full-stack accommodation booking platform with user authentication, listing management, and complete booking workflows.
- Engineered core features including dynamic search, filtering, CRUD operations, image handling, and secure backend APIs.
- Designed a production-ready system with database, RESTful routing, and scalable architecture for real-world usage.

## EDUCATION

2022 - present	B.Tech(Hons) CSE(Data Science), UTD-CSVTU, Bhilai	(GPA: 7.9/10.0)
2020	Class 12th UP Board	78%
2018	Class 10th UP Board	80.5%

## RELEVANT COURSES

Operating Systems, Computer Networks, Database Management Systems, Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Natural Language Processing

## ACHIEVEMENTS & CERTIFICATIONS

- 2026 Secured Runner-Up position in a Hackathon at NSUT Delhi
- 2022 Qualified JEE Advanced 2022 with an AIR of 19886 among 155,000+ candidates nationwide
- 2026 Solved 300+ coding problems on LeetCode, covering core topics in data structures, algorithms, and problem solving
- 2025 Received Letters of Recommendation from a Professor at IIT Kanpur for academic excellence & research potential
- 2025 Certified in Computer Vision and Management Information Systems by NPTEL-SWAYAM (Elite)

## SKILLS

<b>Programming Languages</b>	Python, Java, JavaScript, SQL,
<b>AI/ML Frameworks</b>	LangChain, LangGraph, TensorFlow, PyTorch, Model Deployment, scikit-learn, OpenCV
<b>Web/Backend</b>	REST APIs, n8n, webhook, MongoDB, ReactJS, NodeJS
<b>MLOps/Deployment</b>	Docker, DVC, AWS, MLflow (basic), CI/CD (GitHub Actions)