

# AJITESH SHUKLA

ajiteshshukla1234@gmail.com — +91 7307909019  
LinkedIn: ajitesh-shukla — GitHub: ajitesh68

Aspiring Software Engineer focused on efficient algorithms (DSA), Data Science, and exploring the frontiers of Generative & Agentic AI

## EDUCATION

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### Vellore Institute of Technology

B.Tech CSE (Spec. in AI & ML) — CGPA: 8.94/10

### Surya Public School (12th CBSE)

Percentage: 86%

### City Montessori School (10th ICSE)

Percentage: 91%

Bhopal, MP

Expected May 2027

Lucknow, UP

June 2022

Lucknow, UP

June 2020

## PROJECTS

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### NIH Chest X-ray Abnormality Detection —

Mar 2024 – Apr 2024

- Fine-tuned DenseNet-121, InceptionV3, and DeiT-LT on the NIH dataset for multi-label classification.
- Achieved improved performance through model-specific augmentation and layer-wise fine-tuning.

### Image Dehazing using Autoencoders —

Nov 2025 – Jan 2026

- Developed a deep learning model using U-Net architecture to effectively remove haziness and restore image clarity.
- Implemented residual learning techniques to preserve high-frequency details and optimize reconstruction quality.

### Tsunami Prediction Model — Source Code

Nov 2025 - Dec 2025

- Built a Streamlit web application that predicts tsunami intensity and risk levels using global earthquake data and machine learning.
- Implemented a complete deployment pipeline, handling feature engineering and data processing for accurate real-time forecasting

## TECHNICAL SKILLS

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- **Languages:** C++, Python, SQL
- **Libraries/Frameworks:** Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, Matplotlib, Seaborn, Pytorch
- **Tools:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab
- **Concepts:** Data Structures (DSA), OOP, DBMS, Machine Learning, Deep Learning, Computer Vision, NLP

## CERTIFICATIONS

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- **IBM Generative AI with watsonx** (IBM SkillsBuild) — [View Certificate](#)
- **Cloud Computing** (NPTEL - IIT Kharagpur) — [View Certificate](#)
- **Applied Machine Learning in Python** (University of Michigan) — [View Certificate](#)
- **Oracle Cloud Infrastructure 2025 Certified Data Science Professional** (Oracle) — [View Certificate](#)
- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** (Oracle) — [View Certificate](#)

## ACHIEVEMENTS

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- Solved more than 350 problems on Leetcode.
- **Dr. G. Viswanathan Challenge:** Completed 100 Days of Code, strengthening core logic.
- **Teachers Day Challenge:** DSA challenge organised by our college to enhance our coding skills.