AJITESH SHUKLA

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Passionate CPP and Python programmer with knowledge of Data Science, Machine Learning and Generative AI.

Education

Vellore Institute of Technology   Bhopal, Madhya Pradesh
BTech   Expected May 2027
Computer Science and Engineering with specializationin Airtificial Intelligence and Machine Learning.
Cumulative GPA: 8.91/10

12th Standard   **Surya Public School,**
CBSE   **Ahamamau,Lucknow,Uttar Pradesh**
Percentage: 86 % June 2022

10th Standard   **City Montessori School,**
ICSE   **Kanpur Road,Lucknow, Uttar Pradesh**
Percentage: 91 % June 2020

Projects

NIH Chest X-ray Abnormality Detection.   **March 2024 – April 2024**
- Fine-tuned and evaluated three deep learning models — DenseNet-121, InceptionV3, and DeiT-LT (Vision Transformer) — on the NIH Chest X-ray dataset for multi-label classification.
- Achieved improved performance through model-specific augmentation and layer-wise fine-tuning, targeting detection of conditions like pneumonia, cardiomegaly, and more.

SkillHunt – Team Collaboration & Event Matchmaking Platform   **Jul 2023 – Sep2023**
- Contributed as a frontend developer using HTML, CSS, and React for building user-friendly interfaces.
- Designed and implemented key UI components for homepage, login/signup, profile routing, and event listings.
- Collaborated with backend team to integrate dynamic data and ensure responsive design across devices.

Multiclass Digit Classification using Logistic Regression   **Jul 2025**
- Built a machine learning model to classify handwritten digits (0–9) using logistic regression on the MNIST dataset..
- Focused on thorough model evaluation, including confusion matrix, accuracy, and per-class performance analysis.
- Emphasized code documentation and clean project structure for reproducibility and learning.

Work Experience and Achievements

Dr.GViswanathan Challenge - 100DaysOfCodingChallenge
Completed 100 Days of Code under the DGVC coding initiative, strengthening core logic and consistency.

50 Days Badge on Leetcode (2024 & 2025)
Earned badge for consistency over 50 days in both 2024 and 2025, demonstrate long-term dedication to problem-solving

ADDITIONAL

Technical Skills: Python, Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn,Keras,Tensorflow, Machine Learning, Deep Learning, Data analysis, CPP and DSA

 Git & GitHub, Jupyter Notebook, VS Code

Languages: Fluent in Hindi and English

Certifications & Training:
● **IBM Generative AI with watsonx** Issued by IBM SkillsBuild
Gained hands-on understanding of generative AI workflows, prompt engineering, and responsible AI practices using IBM Watsonx.

● **Cloud Computing NPTEL Certification – IIT Kharagpur Course**
Covered core cloud paradigms including IaaS, PaaS, SaaS, virtualization, dew/serverless computing, and cloud sustainability.