

Shubham

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EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science; CGPA: 8.2

Bhopal, India

Aug 2021 – May 2025

Kendriya Vidyalaya

Higher Secondary School; CGPA: 8.2

Mathura, India

July 2020

TECHNICAL SKILLS

Languages: Shell Scripting, C/C++, SQL, HTML/CSS, Python, Git, React

Developer Tools: Git, Docker, Terraform, Google Cloud Platform, AWS, Kubernetes, Selenium

Libraries: Pandas, NumPy

EXPERIENCE

Preprocessing Techniques for Lung Cancer Detection

Python, OPEN CV, Histogram Equalization

Research Intern

Dec 2024 – March 2025

- Applied noise reduction and image normalization techniques to improve feature extraction.
- Used PCA and feature scaling to enhance machine learning model performance.
- Implemented data augmentation to handle class imbalance and improve model robustness.
- Integrated preprocessing workflows into automated pipelines for efficient model training.

Lung-Cancer-Detection-Web

Python, Django, React

FrontEnd

Oct 2024 – Nov 2024

- Developed a Lung Cancer Detection Web App using Python, Django, and React to classify lung cancer from medical images.
- Implemented deep learning models with TensorFlow/Keras to improve accuracy in cancer detection.
- Designed an interactive frontend using React for seamless image upload and result visualization.
- Deployed the application on a cloud platform (e.g., AWS/GCP) for real-time processing and accessibility.

PROJECTS

Deploy an E-Commerce Three-Tier Application

Python, Jenkins, Docker, Kubernetes, Git

- Developed a CNN-based model to classify real vs. AI-generated images.
- Collected and preprocessed 100,000+ images from multiple sources.
- Implemented image feature extraction techniques for enhanced accuracy.
- Trained and optimized the model for high classification accuracy.

CI/CD Pipeline

Python, Jenkins, Docker, Kubernetes, Git

- Developed a robust CI/CD pipeline for automated application deployment.
- Automated build, test, and deployment workflows to accelerate release cycles.
- Integrated Kubernetes for scalable and efficient microservices deployment.

ACHIEVEMENTS

- State Award in Bharat Scout and Guides
- Maintained 300-day LeetCode streak and 150-day GeeksforGeeks streak