Om Lohade

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EDUCATION

•**Bachelor of Technology in Information Technology** *2023-26*

Vishwakarma Institute of Technology, Pune CGPA: 9.15

•**Diploma in Engineering** *2020-23*

Government Polytechnic Nashik, Nashik Percent: 92.31

PROJECTS

•**Automated Multiclass Skin Disease Diagnosis using Deep Learning**

Developed a deep learning model achieving 97 percent accuracy for skin disease classification.

– Trained on a curated dataset of 1,125 medical images across seven skin disease categories,with augmented dataset.
– Applied image preprocessing (contrast enhancement, noise reduction) to improve clarity and model input..
– Designed CNN with Convolutional, ReLU, MaxPooling, and Dense layers, optimized using Adam optimizer and categorical cross-entropy loss.
– Tech Stack: Python, Flask, HTML, CSS, JavaScript, Postman, Locus, AWS(Deployment)

•**Multimodal Medical Image Synthesis and Cross-Modality Conversion using Explainable AI**

Designed a multimodal architecture combining CNN and BERT for spatial and semantic feature fusion.

– Preprocessed 7,000 X-ray/XML pairs; extracted findings and tokenized text using BERT for context-aware generation.
– Trained a generator with adversarial, L1, and perceptual losses; applied Grad-CAM and CycleGAN for explainability and MRI-CT cross-modality translation.

•**Sharvi E-Commerce Platform**

Built a comprehensive online shopping website focused on usability, functionality, and responsive design.

– Developed a responsive UI using HTML, CSS, and JavaScript, ensuring optimal performance across devices.
– Implemented backend architecture with MySQL and node.js for product data and user management.
– Integrated dynamic features like cart management, product search, and smooth navigation
– Added user authentication and session handling to enable secure login and personalized experience.

EXPERIENCE

•**Software Development Intern** *June – Dec 2024*

Eduplus Campus (UDNAV Software Ltd.) Hybrid

– Designed a secure document validation system using blockchain, SHA-256 hashing, and QR code integration.
– Built modular backend architecture in Node.js with REST APIs to integrate blockchain and ML components.
– Developed an ML pipeline (OCR + NLP) for document data extraction

TECHNICAL SKILLS AND INTERESTS

Languages: C++, Python **Database:** MySQL, Mongo

Web Development: HTML, CSS, Javascript, Node.js, Express.js, REST APIs, Flask, Session Management

Tools & Platforms : VScode, Git, Github, AWS (beginner)

Core Subjects: Data Structures & Algorithms, Object Oriented Programming, Database Management System, Operating systems.

Soft Skills: Problem Solving, Self-learning, Communication, Adaptability

POSITIONS OF RESPONSIBILITY

–**Partnership Management Head** Microsoft Learn Student Club - VIT, Pune *June 2024 - Present*

* Securing partnerships for club events, ensuring financial or in-kind support from companies.
* Mentored a team of students, guiding them in improving technical skills through hands-on sessions.

ACHIEVEMENTS

–**Hackathon Runner-up** iHack2025 (by Infineon Technologies) *Feb 2025*

–**Research Publications:** Published 4 papers in journals/conferences. *Sep 2023 - Present*