MANGLESH NIMBALKAR

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EDUCATION

Vishwakarma Institute of Information Technology   **2022 – 2026**
*B.Tech (Computer Engineering) - **CGPA: 9.46***   *Pune, Maharashtra*

COURSEWORK

- Data Structures & Algorithms
- Database Management System (DBMS)
- Operating Systems
- Artificial Intelligence
- Machine Learning Operations (MLOps)

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, HTML, CSS, Git
Libraries and Frameworks: Transformers, SpaCy, NLTK, PyTorch, OpenCV, TensorFlow, Keras
ML Technologies: NLP, RAG, LangChain, CNN, YOLO
Database Tools: MongoDB, Neo4j, MySQL

PROJECTS

Skin Cancer Detection Model ⧉ | TensorFlow, Keras, Python   **April 2024**

- Developed a CNN-based multiclass classification model achieving **87% accuracy** in skin cancer detection.
- Optimized various architectures including ResNet, MobileNet, EfficientNet, AlexNet and DenseNet.

File Distribution System ⧉ | Socket Programming, Networking, Multithreading   **August 2024**

- Developed a file distribution system using Socket Programming, enabling **1000+** simultaneous users.
- Improved bandwidth utilization by **38%** with improves transfer speeds
- Implemented group management and data protection features, reducing errors by **27%**.

Patient Sentiment Analysis using Multimodal Inputs ⧉ | RoBERTa, NLP, LLM, ScaCy   **June 2024**

- Developed a sentiment analysis system processing **3** input types (audio, video, text), enhancing user satisfaction by **30%**.
- Achieved **95% accuracy** in sentiment detection using the RoBERTa model, with sarcasm detection for precise feedback classification.
- Implemented an interactive dashboard and chatbot, improving user engagement by **25%**.

RESEARCH WORK

- An analysis of the performance of Binary and Multiclass models for early diagnosis of Skin Cancer
- Student's Face Recognition Attendance System using OpenCV

ACHIEVEMENTS

- **Winners** at Tally CodeBrewers 2024 (National Level Hackathon) - Cash Prize: **75K**
- Selected for Amazon ML Summer School 2024

CERTIFICATIONS

- Data Analysis using Python - **NPTEL Certification (Top 1%)**
- AI-ML Google, AWS Data Engineering - **Virtual Internship - Eduskills AICTE, India**
- Deep Learning A-Z 2024, Machine Learning A-Z 2024, Mastering Data Structures and Algorithms - **Udemy**

EXTRACURRICULAR ACTIVITIES

Hackathon VIIT - President   **September 2024 – Current**

- Leading the planning and execution of hackathons, coordinating logistics and participant engagement.
- Conducted SIH internal hackathon, fostering innovation and collaboration among students.
- Increased participation by **30%** through effective marketing strategies.
- Organizing workshops and mentoring teams on project development and presentation skills.

SOFT SKILLS

- **Leadership & Teamwork:** Guiding teams and fostering effective collaboration.
- **Communication & Adaptability:** Clear verbal skills with quick adjustment to challenges.
- **Problem-Solving & Time Management:** Strong analytical abilities with effective prioritization.