Dhanshree Warokar

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Professional Summary

AI/ML Engineer with a strong academic foundation from VNIT Nagpur and hands-on experience building and deploying machine learning solutions across healthcare, cloud, and computer vision domains. Proficient in Python, PyTorch, Scikit-learn, OpenCV, and Microsoft Azure. Demonstrated success in developing end-to-end AI pipelines for medical imaging, anomaly detection, and synthetic data generation. Experienced with explainable AI techniques (SHAP, LIME), statistical modeling, and Power BI for real-time reporting and insights. Strong collaborator with a focus on scalable, production-ready systems.

Work Experience

- **AI/ML Engineer** *Aug 2024 - Present*
  Accenture Solutions Private Limited, India Pune, India
  - Developed and deployed a deepfake detection system for MRI/CT scans using CNNs, KL divergence, Fisher-Rao metrics, and Error-Level Analysis (ELA), improving tampering detection accuracy by 32% across imaging modalities.
  - Generated over 10,000 synthetic medical volumes using GANs (Medigan, Pix2Pix) and diffusion models (MAISI), increasing dataset diversity and enhancing model generalization by 27%.
  - Applied VGG feature extraction, Fourier transforms, and KMeans clustering to identify outliers and anomalies; boosted classification performance by 23% using optimized CNN and SVM models.
  - Authored detailed documentation on model pipelines, architecture, and evaluation metrics; facilitated cross-functional collaboration with cloud, data, and security teams, accelerating development by 30%.
- **Advance Application Intern** *June 2023 - July 2023*
  Accenture Bangalore, Karnataka
  - Built secure web apps on Microsoft Azure using CIS benchmarks, reducing security risks by 40%.
  - Automated cloud provisioning and identity workflows, cutting manual setup time by 60%.
  - Developed Power BI dashboards for real-time infrastructure monitoring, improving stakeholder visibility and incident response.

Education

- **Visvesvaraya National Institute of Technology Nagpur (NIT NAGPUR)** *Dec 2020 - May 2024*
  Bachelor of Technology (B.Tech) in Electronics and Communication Engineering (ECE) Nagpur, Maharshtra, India
  - Cumulative GPA: 7.85/10.00

Projects

- **Right Ventricular Ejection Fraction (RVEF) Prediction** *July 2023 – May 2024*
  Tools: Python, PyTorch, Scikit-learn, Computer Vision, Deep Learning
  - Designed a deep learning pipeline using Temporal Convolutional Networks (TCNs) with 3D convolutional layers to predict Right Ventricular Ejection Fraction (RVEF) from 2D echocardiogram video sequences, achieving an R^2 score of 89%.
  - Extracted spatial and temporal features to model cardiac motion dynamics; implemented preprocessing techniques such as frame sampling and intensity normalization to improve model stability and convergence.
  - Integrated SHAP-based model interpretability and validated outputs using clinical benchmarks, demonstrating feasibility for real-time, non-invasive cardiac function assessment in medical imaging workflows.

Skills

- **Languages:** Python, C, C++, JavaScript
- **Machine Learning/AI:** Scikit-learn, PyTorch, Deep Learning, OpenCV, CNNs, GANs, SHAP, LIME
- **Cloud/Tools:** Microsoft Azure, Power BI, Git, GitHub
- **Web Technologies:** HTML, CSS, Flask
- **Databases:** MySQL, MongoDB
- **Concepts:** Data Structures, OOP, Image Processing, Model Evaluation

Certificates & Achievements

- JEE Mains 2020 97.45 percentile
- Student mentor for 2022 BTech ECE batch in VNIT
- Ganit Pradnya and Pravinya Medalist.

Co-Curricular Activities

- State Level Dancer, Guitarist, Badminton Player.
- Event Manager at Ecell club, Organizer at Axis club VNIT.