Soundarya Dube

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EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh   **2022 - 2024**
B.Tech in Computer Science & Engineering (Specialization in Health Informatics)   CGPA: 8.42/10

Ascent International Senior Secondary School, Udaipur, Rajasthan
12th (RBSE) - Science (PCB)   84.60%

St. Teresa Senior Secondary School, Udaipur, Rajasthan
10th (CBSE)   8.6

SKILLS

Programming Languages: Python, C++
Frameworks & Technologies: FastAPI, Flask, Django, WebSocket, TensorFlow, PyTorch, OpenCV, Keras, BERT
Cloud & Deployment: Google Cloud Platform (GCP) – Deployment and Monitoring
Databases: MongoDB (NoSQL), basic SQL
Development Skills: API Development, Real-Time Systems, RESTful Services, Scalable Code Architecture
Areas of Interest: Health Informatics, Deep Learning, Reinforcement Learning, Medical Imaging, NLP
Relevant Courses: Machine Learning, Deep Learning, Artificial Intelligence, Computer Vision

PROJECTS

NLP in Healthcare

- Developed a system using NLP to decode prescription photos and extract essential drug information.
- **Tools Used:** Python, OpenCV, spaCy
- Streamlined prescription data extraction, reducing manual effort and minimizing errors.

Predictive Analysis for Cardiovascular Diseases

- Built a predictive model using ECG data for early detection of cardiovascular diseases.
- **Techniques:** Logistic Regression, SVMs, Random Forests
- Achieved **85% accuracy**, reducing misdiagnoses by 20%.

Medical Image Analysis for Diabetic Retinopathy

- Developed an AI-powered tool for screening diabetic retinopathy (DR) using **convolutional neural networks (CNNs)**.
- **Tools Used:** TensorFlow, Image Processing, Data Augmentation
- Improved early detection and reduced refractive errors by **15%**.

CERTIFICATIONS

HTML, CSS, and JavaScript for Web Developers (Certificate link**)**
Crash Course on Python (Certificate link)

EXTRACURRICULAR & LEADERSHIP

PR Team Lead in Metaversity   **Feb 2025**
Project Leader in Industry Conclave   **Aug 2024**