

Soundarya Dube

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EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh <i>B.Tech in Computer Science & Engineering (Specialization in Health Informatics)</i>	2022 - 2024 CGPA: 8.42/10
Ascent International Senior Secondary School, Udaipur, Rajasthan <i>12th (RBSE) - Science (PCB)</i>	84.60%
St. Teresa Senior Secondary School, Udaipur, Rajasthan <i>10th (CBSE)</i>	8.6

SKILLS

Programming Languages: Python, C++

Technologies: TensorFlow, PyTorch, OpenCV, Keras, BERT, NLP Tools

Areas of Interest: 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