Prasanna Devika

Biomedical Engineering Student

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ABOUT ME

A dedicated Biomedical Engineering student with a passion for artificial intelligence and graphic design. Experienced in medical device development, research, and web development through internships and projects. Proficient in programming, machine learning, and design tools, with a strong foundation in data science and AI, complemented by hands-on experience in creating innovative solutions.

Experience

Academic Intern
Jan 2025 – Present

IITMs HTIC MedTech Incubator
Engaged in medical device research and development, focusing on regulatory compliance (MDR) and user experience design (UED).

Graphic Designer
Aug 2024 – Dec 2024

Dedrock – The Universe
Designed banners, product listings, and mockups to support creative projects.

Research and Promotion Intern
Aug 2024 – Dec 2024

EvePaper
Conducted research, collected data, and promoted initiatives, enhancing research design skills.

Freelancing

Web Developer & Designer

Ayurveda Clinic Website (https://vedanshiayurveda.netlify.app/)

- Designed and developed a professional, user-friendly website for an Ayurvedic clinic using HTML, CSS, and JavaScript.
- Successfully improved the clinic's digital presence, making its services more accessible to a wider audience through an intuitive and responsive design.

Education

Bachelor of Biomedical Engineering
Nov 2020 – May 2026

University College of Engineering, Osmania University

CGPA: 9.072

- Currently pursuing a degree in Biomedical Engineering, blending engineering principles with medical sciences to address healthcare challenges.

12th Standard
Aug 2024 – Dec 2024

Dayanand Anglo Vedic (DAV) Public School

Grade: 84%

- Completed higher secondary education with a focus on science and mathematics, establishing a solid base for engineering studies.

10th Standard
Aug 2024 – Dec 2024

Mount Litera Zee School – India

Grade: 94.6%

- Excelled in secondary education with top marks in subjects like science, mathematics, and languages, showcasing strong academic ability.

Projects

01 Raspberry Pi Based Portable Audiometer

Objective: Developed a portable audiometer using a Raspberry Pi to enable accurate hearing assessments in multilingual and pediatric settings, addressing the need for accessible healthcare technology outside traditional clinical environments.

Functionalities:

- Implemented Pure Tone Audiometry (PTA) to measure hearing thresholds across various frequencies. Incorporated Speech Audiometry to assess speech recognition, with tailored modes for adults and children to ensure versatility.

02 AI-Powered Electronic Component Detection

Objective: Engineered an AI-driven system to identify electronic components from images, tackling the challenge of time-consuming and error-prone manual identification in electronics laboratories.

Functionalities:

- Built a system to accurately classify components from uploaded images, providing instant results via a web interface. Integrated the AI model into a web-based platform for the Electronic Components and Information Technology Laboratory, improving workflow efficiency.

Skills

Biomedical Equipment:

- Bedside Monitor
- Syringe Pump and Infusion Pump
- Audiometer
- Diathermy (Ultrasound and Shortwave)
- Baby Warmer and Phototherapy Unit
- Electrosurgical Unit (ESU)
- Anesthesia Machine and Ventilator
- Multi-Channel Data Acquisition System

Technical Concepts:

- AI/ML
- Data Science
- IOT(Arduino,esp32,Raspberry pi)

Research:

- Research Design
- Data Collection
- Web Scraping

Programming Languages:

- Python
- C
- HTML, CSS, JavaScript

Libraries & Frameworks:

- Pygame
- Matplotlib
- Tkinter
- Flask
- PyTorch
- TensorFlow

Design:

- Figma
- Canva
- Adobe Illustrator
- Adobe Photoshop

Soft Skills:

- Analytical Thinking
- Problem Solving
- Communication
- Time Management

Certifications

Data Science For Engineers

- Issuing Organization: NPTEL

Introduction To Programming In C

- Issuing Organization: NPTEL

Programming, Data Structures And Algorithms Using Python

- Issuing Organization: NPTEL

Introduction to Natural Language Processing

- Issuing Organization: Infosys Springboard

Computer Vision 101

- Issuing Organization: Infosys Springboard

Introduction to Artificial Intelligence

- Issuing Organization: Infosys Springboard

Introduction to Data Science

- Issuing Organization: Infosys Springboard

Introduction to Deep Learning

- Issuing Organization: Infosys Springboard

Introduction to Generative AI Learning Path

- Issuing Organization: Google

Introduction to Robotic Process Automation

- Issuing Organization: Infosys Springboard

What Is Generative AI
- Issuing Organization: LinkedIn

Nestlé E-Learning 2024 | Sustainability
- Issuing Organization: Nestlé

Siemens Mobility - Operations Industrial Engineer Job Simulation
- Issuing Organization: Forage

Chat GPT for Microsoft PowerPoint Presentation
- Issuing Organization: Great Learning

Email Writing Skills
- Issuing Organization: Infosys Springboard

Time Management
- Issuing Organization: Infosys Springboard

Achievements

GATE BM 2025: All India Rank 44

References

Prof. M.Malini, Professor & Head of the Department
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