

Hiruthika M

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CAREER OBJECTIVE:

A passionate Biomedical Engineer driven to revolutionize healthcare through AI, diagnostics, and telemedicine. With Intermediate Knowledge in C, C++, Java, and DSA, I strive to bridge engineering and medicine for innovative patient-centered solutions.

EDUCATIONAL QUALIFICATION

Qualification	Institution	Year of Passing	Percentage/CGPA
B.E Biomedical Engineering	Karpagam Academy of Higher Education, Coimbatore	2022-2026	8.7*
HSC	Theni Melapettai Hindu Nadar Uravinmurai Vidyalaya Matriculation Higher Secondary School	2022	70%
SSLC	Theni Melapettai Hindu Nadar Uravinmurai Vidyalaya Matriculation Higher Secondary School	2020	70.5%

INTERNSHIP

- Undergone an Internship at **MEDSBY HEALTHCARE ENGINEERING**, Coimbatore (May 21 – June5, 2024)

Learning Outcomes: Gained hands-on experience in **3D printing**, **3D modeling**, and applying AI to prosthetics and rehabilitation devices.

- Undergone an Internship at **FIMS HOSPITAL**, Coimbatore (Dec 9 – 23, 2023)

Learning Outcomes: Learned to **calibrate**, maintain, and ensure the safe operation of advanced medical equipment in clinical settings.

- Undergone an Internship at **MEENAKSHI MISSION HOSPITAL**, Madurai (June 26 – July 1, 2023)

Learning Outcomes: Acquired practical knowledge in **troubleshooting**, managing, and safety.

PROJECTS

- **Title: Computerized Cognitive Retraining Program (Duration: 3 months)**

Abstract: Developed EEG-integrated software to enhance cognitive and behavioral skills in children with disabilities through *neurofeedback therapy and interactive games*.

- **Title: Heart Rate Monitoring System for Disabilities (Duration: 3 months)**

Abstract: Designed a real-time heart rate monitoring system to detect anxiety, stress, or agitation in individuals with mental disabilities, providing caregivers with timely *alerts for Mobile phones*

- **Title: Design Myocardial Energy Metabolism using Cell Designer (Duration: April 2025)**

Abstract: Developed a Cell Designer-based SBML model of cardiac metabolism integrating glycolysis, TCA cycle, β -oxidation, and enzyme kinetics from BRENDA and experimental datasets.

AREA OF INTEREST

- Biomedical Image Processing & Biomedical Signal Processing
- Artificial Intelligence in Healthcare
- Bioinformatics

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java
- **Software Development:** Data Structures and Algorithms, Microsoft Excel (Data Analysis), PowerPoint.
- **Biomedical Tools & Bioinformatics:** SCILAB, Cell Designer (Metabolic Pathway Modeling)

CERTIFICATION

- Online Courses in *Introduction to Networking, Fundamentals of Cloud Computing, and Operating Systems*.
- Value Added Course on *Biomedical Data Analysis Using Python* (Jan 8 – Apr 16, 2024)
- NPTEL Certificate Course in *Artificial Intelligence* (Elite with 68%) – Completed in 2023

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief. I understand that any misrepresentation or omission of facts may result in the rejection of my application.

Place: Coimbatore

[Hiruthika M]

Date: