INTERNSHIP OFFER
IN-2025-B1103-KU

Karunya University, India | HYBRID

INTERNSHIP HOST

Name of Company
Karunya University
Computer Science and Technology

Website
http://www.karunya.edu

Address of Company
Coimbatore
India

Number of Employees
400

Business or Product
University

STUDENT REQUIRED

General Discipline
Computer Science / Informatics

Field of Study

Completed Years of Study
3

Language Required
English Excellent (C1, C2)

Required Qualifications and Skills
Python | Machine Learning | Data Science | Data Analysis | Artificial Intelligence
The intern should have knowledge of AI and python related to explainable AI techniques and PPG signal processing.

Student Status Requirements
Student status required throughout the internship

Other Requirements/Information

INTERNSHIP OFFER

8 - 8 weeks

Latest Possible Start Date
01-Sep-2025

Within Months
Jul-2025 - Oct-2025

Company Closed WIthin
-

10000 INR per Month

Deductions Expected
0

Payment Method
Cash

5000 INR per Month

Arranged by
IAESTE- LC KARUNYA

Estimated Cost of Living including Lodging
8000 INR / Month

Working Environment: Research and development

Working Hours / Week: 40.0

Revolutionizing Hypertension Detection through Explainable AI and PPG Signals

Overview:
Join our cutting-edge research project aimed at developing an interpretable and highly accurate model for detecting hypertension using photoplethysmography (PPG) signals. Contribute to advancing healthcare diagnostics and improving patient outcomes.

Objectives:
1) Develop an explainable AI model for hypertension detection using PPG signals
2) Enhance the interpretability and reliability of the model for clinical use
3) Improve the performance of hypertension detection through comprehensive analysis

Outcomes:
1) Gain hands-on experience in applying explainable AI techniques to healthcare
2) Develop expertise in working with PPG signals and image-based feature extraction
3) Contribute to a groundbreaking project with the potential for real-world impact

Intern's Responsibilities:
1) Assist in data acquisition, preprocessing, and conversion of PPG signals to images
2) Implement and optimize feature extraction techniques for PPG images
3) Collaborate on developing and validating the explainable AI model for hypertension detection

ADDITIONAL INFORMATION

1. The option to work from home is available for this offer. In this case, the available dates for the internship are from July 2025 - October 2025 and there will be no stipend provided. However, if the intern chooses to work at the employer's location, a stipend will be provided based on the dates specified in the 'Work Offered Field'.
2. The intern is required to fill out the attached declaration form to confirm their preferred mode of internship.

Deadline for Nomination - 15-Mar-2025

Date - 26-Jan-2025

On Behalf of Receiving Country - IAESTE India