

## Project Title: QalbCare: Remote Monitoring of Heart Health

**Project Description:** QalbCare is a project in collaboration with HMC where we monitor heart health of high risk chest pain patients. In this internship, we will explore different methods to analyze and interpret real-time ECG data.

**Project Type:** Engineering

### Internship Batch:

- **Batch 1:** May 10 to July 9, suitable for Education City students, i.e., CMUQ, TAMUQ and HBKU students
- **Batch 2:** May 31 to July 23, suitable for QU university students

### Duties/Activities:

- Data curation for abnormal ECG data
- Create pipeline for analysis of ECG data
- Exploration of LLMs for ECG arrhythmia classification
- Creation of benchmarks
- Integration with other wearables

**Required Skills:** Python, PyTorch, Langchain

**Preferred Intern Academic Level:** Junior / Senior

**Learning Opportunities:** Working with production level systems, Hands on experience with AI, latest tools and libraries for time series analysis

**Expected Team Size:** *1 Intern who works with 1 RA and 1 SSE*

### Mentors

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