

## TECHNOLOGY DEVELOPMENT PROGRAM HEALTHTECH

### Gait Revive - Beyond the Walk

Gait analysis for identifying abnormalities among cerebral palsy patients



#### Issue Being Addressed

- ▶ Abnormal gait classification mainly focuses on cerebral palsy in children
- ▶ Tedious manual techniques hinder efficient classification and intervention

#### Key Feature of the Technology/Product /App Which is Being Developed

- ▶ Remote monitoring via app - remote tracking of gait parameters allowing continuous monitoring
- ▶ Virtual therapy for patients - personalized therapy and exercises targeting specific issues
- ▶ Prognosis report after each session - automated report generation post-therapy
- ▶ Ease of abnormal gait diagnosis - facilitates prompt and accurate diagnostic and provide insights on gait abnormalities

#### Impact & Benefit

- ▶ Promoting health equity in underserved communities by providing accessible gait analysis and therapy to empower individuals in enhancing mobility
- ▶ Kinect and IMU devices adhere to EMI and EMC regulations, guaranteeing energy efficiency, minimal emissions, and a diminished environmental footprint

#### Team

- ▶ J Hemashree Sehaba Banu Shaik
- ▶ PI: Mouli Sai Krishna Kumar Nyshadam, Assistant Professor, BVRIT Hyderabad College of Engineering for Women

**CHANAKYA UG Fellowship**

#### Targeted Customers & End Users

- ▶ Orthopaedics, neurologists, physiotherapists
- ▶ Hospitals and healthcare professionals
- ▶ Patients with abnormality in gait

#### Significant Milestone

- ▶ First place in smart SRM hackathon 2022 at SRM university AP
- ▶ Top position in the hunt competition at VNR vignana jyothis
- ▶ Second place in the take Off competition by runway incubator and UPES