**DETECTING HEALTH AND MENTAL WELL-BEING OF TEENAGERS**

**Section-A**

1. HI/BI State: Andhra Pradesh
2. HI/BI Centre: Lakireddy Bali Reddy College of Engineering
3. Idea Theme: Mental Health Support
4. Title of proposed Idea/Innovation: Mental Health Support App –AI Based Multi Service Solutions for detecting Mental Health of Teenagers
5. Briefly explain the newness/uniqueness of the Innovation

The well-being of teenagers, encompassing both physical health and mental wellness, plays a crucial role in their overall development and future prospects. However, identifying and addressing health and mental well-being challenges among teenagers can be complex and multifaceted. This abstract aims to highlight the significance of detecting and monitoring the health and mental well-being of teenagers and outlines potential approaches for achieving this goal.

Understanding the health status of teenagers requires comprehensive assessment of various factors, including physical fitness, nutrition, sleep patterns, and the presence of chronic illnesses or ailments. Additionally, recognizing the mental well-being of teenagers involves evaluating emotional states, stress levels, self-esteem, and the presence of mental health disorders such as anxiety or depression. Both physical health and mental well-being are interconnected and can significantly impact the lives of teenagers, including their academic performance, social relationships, and overall quality of life.

Advancements in technology and data-driven approaches provide promising avenues for detecting and monitoring the health and mental well-being of teenagers. Wearable devices, smartphone applications, and online platforms can collect valuable data regarding physical activity, sleep patterns, heart rate, and stress levels. By integrating machine learning algorithms and artificial intelligence, these data can be analyzed to detect patterns, trends, and potential risk factors for health and mental well-being issues. This enables early intervention and targeted support for teenagers in need.

Furthermore, proactive engagement from various stakeholders is essential to ensure the successful implementation of health and mental well-being detection strategies for teenagers. Parents, educators, healthcare professionals, and policymakers must collaborate to create supportive environments that encourage open communication, prioritize mental health education, and provide accessible resources for teenagers to seek help when needed. Combining the strengths of technology and human support systems can empower teenagers to take an active role in maintaining their well-being and seeking assistance when required.

In conclusion, detecting the health and mental well-being of teenagers is of paramount importance to support their holistic development and ensure their future success. Leveraging technological advancements and fostering collaborative efforts among stakeholders can facilitate early detection, intervention, and support, thus promoting the well-being of teenagers and nurturing their potential to thrive in all aspects of life .

**Section-B**

1. Principal Investigator:: L Manisha

Sex (M/F):F

Designation: Ms.

Department: CSE

Institute Name: LakireddyBalireddy College of Engineering

Address: Mylavaram , Krishna

Telephone: 9177472524

E-mail: marsha.laveti2004@gmail.com

Date of Birth: 16Th June 2004

1. Co-Investigator: G Mercy

Sex (M/F):F

Designation: Ms.

Department: CSE

Institute Name: LakireddyBalireddy College of Engineering

Address: Mylavaram , Krishna

Telephone: 7569321445

E-mail: gantamercy08@gmail.com

Date of Birth: 11thApril 2004

1. Mentor: Dr.K.Devi Priya,Associate Professor,CSE,LBRCE
2. Estimated Budget in Rs.: (Student will get full support from MSME, Faculty 50%)

|  |  |  |  |
| --- | --- | --- | --- |
| SI. | Items | Project Cost (Own share in Lakh) | MSME support sought (in Lakh) |
|  | Outsourcing charges for R&D/Design Engg./Consultancy/Testing/Expert cost | 3L | 3L |
|  | Raw materials/consumables/spares | 2L | 2L |
|  | Fabrication/synthesis charges of working model or process | 2L | 2L |
|  | Business travel and event participation Fees  (Ceiling of 10% of approved project cost) | 2L | 2L |
|  | Patent Filing Cost (PCT- Ceiling of 10% of approved project cost) | 1L | 1L |
|  | Contingency (Ceiling of 10% of approved project cost) | 1L | 1L |
| Total in Lakh | | **11L** | **11L** |