



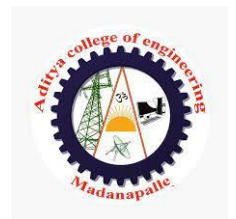
INTERNAL HACKATHON OF SIH – 2023 REPORT

ADITYA COLLEGE OF ENGINEERING

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INTERNAL HACKATHAN OF (SIH) SMART INDIA HACKATHAN – 2023

Date : 27-09-2023
Time : 10 AM to 5 PM
Venue : Room No. 114, Seminar Hall

Department of Computer Science and Engineering & Department of Artificial Intelligence and Data Science, Aditya College of Engineering organized Internal Hackathon of Smart India Hackathon (SIH) - 2023 on 27-09-2023.

Smart India Hackathon is a nationwide initiative to provide students a platform to solve some of pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. In SIH, the students would also have the opportunity to work on challenges faced within the private sector organizations and create world class solutions for some of the top companies in the world, thus helping the Private sector hire the best minds from across the nation.

G20 INDIA 2023

Ministry of Education
Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

SMART INDIA HACKATHON 2023

आजादी का अमृत महोत्सव

ADITYA COLLEGE OF ENGINEERING
MADANAPALLE – 517325

Conducting Internal Hackathon for SIH 2023

VENUE
Date: 27-09-2023
Room No.114
Time: 10AM

SMART INDIA HACKATHON 2023

Aditya college of engineering
Madanapalle

Mr. R. Rama Mohan Reddy
Secretary & Correspondent

Mr. M. Nagamalla Reddy
President

Dr. S. Ramalinga Reddy
Director

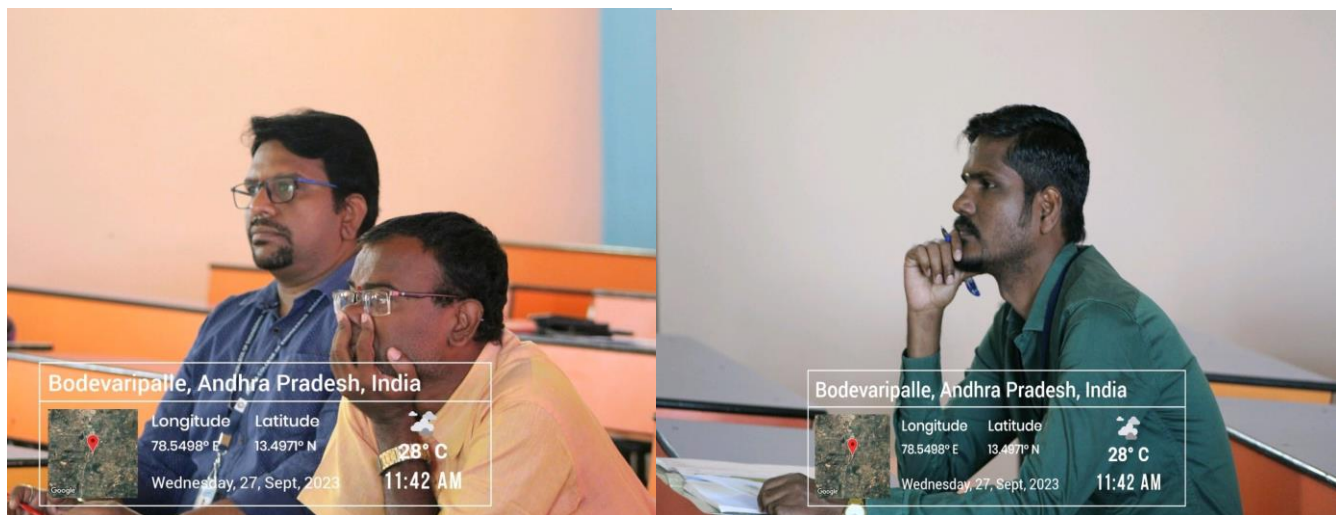
Dr. K. Sathish Babu
Principal

LIST OF TEAM ENROLLEDS


SIH PS NUMBER	TEAM LEADER	THEME TITLE	PROBLEM STATEMENT
SIH1292	G MAMATHA	CLEAN & GREEN TECHNOLOGY	AI-ENABLED WATER WELL PREDICTOR
SIH1287	K.RAMANJULU	CLEAN & GREEN TECHNOLOGY	ROBOTIC CAR FOR CLEANING GARBAGE
SIH1401	SHAIK SHAJEED MURAD	AGRICULTURE, FOODTECH & RURAL DEVELOPMENT	APP-BASED SOLUTION TO IDENTIFY AND SOLVE DISEASE IN PLANTS/CROPS
SIH1491	P GNANESWAR REDDY	AGRICULTURE, FOODTECH & RURAL DEVELOPMENT	ENHANCING AGRICULTURAL PRACTICES THROUGH VEDIC FARMING TECHNIQUES
SIH1307	J GEETHIKA	MEDTECH / BIOTECH / HEALTHTECH	ADDRESSING STUDENT DISCIPLINE ISSUES AND DISRUPTIVE BEHAVIOR IN EDUCATIONAL INSTITUTIONS
SIH1307	K VISHNUSAI REDDY	MEDTECH / BIOTECH / HEALTHTECH	COMPUTARIZED COGNITIVE RETRAINING PROGRAM FOR HOME TRAINING OF CHILDREN WITH DISABILITIES
SIH1347	K.MAYURI	MEDTECH / BIOTECH / HEALTHTECH	DNA MICROARRAY
SIH1320	A.SATHVIKA	SMART VEHICLES	IN-CAB SMART GUIDANCE AND SUPPORT SYSTEM FOR DRAGLINE OPERATOR
SIH1477	D.S.USHA	SMART VEHICLES	STUDENT INNOVATION
SIH1333	P.ANJUM REHABAR	SMART AUTOMATION	UDYOG SAARTHI APP - (PROGRESSIVE WEB-BASED APPLICATION) FOR ADULTS UNDERGOING JOB COACHING FOR OPPORTUNITIES UNDER 4% RESERVATION IN NIEPMD AND OTHER INSTITUTIONS.
SIH1359	L. HARSHA VARDHAN REDDY	SMART AUTOMATION	CONTACT CENTER KNOWLEDGE MANAGEMENT TOOL WITH DECISION TREE
SIH1431	J.PAVITHRA	SMART EDUCATION	ONLINE PERSONALIZATION LEARNING REMEDIATION/TUTORING TOOL. SEARCH FOR A BEST TEACHER FOR SPECIFIC TOPIC.
SIH1434	S. SANIA MEHEK	SMART EDUCATION	AI BASED SOFTWARE WHICH GUIDES STUDENTS TO CHOOSE THEIR CAREER PATH ON THEIR OWN
SIH1291	M. REDDY PRASAD	DISASTER MANAGEMENT	REDUCING AND SOLVING WATER RELATED PROBLEMS
SIH1296	S.BHARGAV	RENEWABLE ENERGY	STRONG MAGNETIC ELECTRICITY
SIH1484	T. VINOD KUMAR	BLOCK CHAIN & CYBER SECURITY	TO REDUCE THE FAKE PROFILES IN SOCIAL MEDIA
SIH1486	K.YATHISH KUMAR REDDY	TRAVEL & TOURISM	STUDENT INNOVATION
SIH1497	GORANTLA CHINMAYEE HARSHITHA	TOYS AND GAMES	STUDENT INNOVATION

DETAILS OF THE JURY MEMBERS

S.No.	Name of the Jury Member	Designation	Organization	Mobile Number	E-mail ID
1.	Dr. J. Jegan	Associate Professor	Aditya College of Engineering, Madanapalle	9791984228	jegan.j@acem.ac.in
2.	Dr. V.V.N. Bhaskar	Associate Professor	Aditya College of Engineering, Madanapalle	9885094705	bhaskar.vvn@acem.ac.in
3.	Dr. K.V. Vara Prasad	Associate Professor	Aditya College of Engineering, Madanapalle	9441117010	varaprasad.kv@acem.ac.in



SNAPSHOTS



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation: Student Innovation

PS Code: 1347

Problem Statement Title: DNA Microarrays


Team Name: BYTE HOGS

Team Leader Name: K.Mayuri

Institute Code (AISHE): C-26971

Institute Name: ADITYA COLLEGE OF ENGINEERING

Bodevaripalle, Andhra Pradesh, India




Google

Longitude Latitude

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Wednesday, 27, Sept, 2023



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Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation: Council for Technical Education(AICTE)

PS Code: SIH1491

Problem Statement Title: Enhancing Agriculture through Vedic Farming Techniques

Team Name: Agri-Veda

Team Leader Name: P Ganeswar Reddy

Institute Code (AISHE):C-26971

Institute Name: Aditya College of Engineering

Bodevaripalle, Andhra Pradesh, India



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Idea/Approach Details


Use Cases

- **Field of medicine:** This gene chip has been used in the medical sector to detect the disorder in early stages.
- **DNA profiling:** with the help of human DNA sample we can get accurate and exact DNA profile of each individual.
- **Research facility:** This will definitely give a clarity for the people who are researching on the DNA microarray concept.
- **Micro chip:** This stores all the features of DNA in the form of data set.

Dependencies / Show stopper

- The dependencies involved in detecting the genetic disorders are :
- **Security and Privacy:** There will be a security for the each person DNA. The details of the each individuals kept in private.
- **Data Analysis:** This helps to enhance the data cleaning, data handling, Missing values corrected values, data processing, Data visualization.

Bodevaripalle, Andhra Pradesh, India



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Idea/Approach Details

Idea/Solution/Pr

- Designing the machine learning model using python to detect genetic disorders for the individual based on the features of genetic codes and features.
- The accurate model for detecting genetic disorders using gene chip.
- Healthcare providers will be able to detect genetic disorders efficiently with a

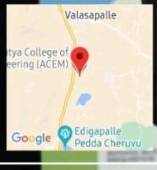
Data set (Features of normal person dna)

- Input data from the gene chip

Technology stack

- Our technology stack includes machine learning libraries like TensorFlow, Keras, and PyTorch.
- Integrated with a user interface for easy use.
- These are convenient and primary care.

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