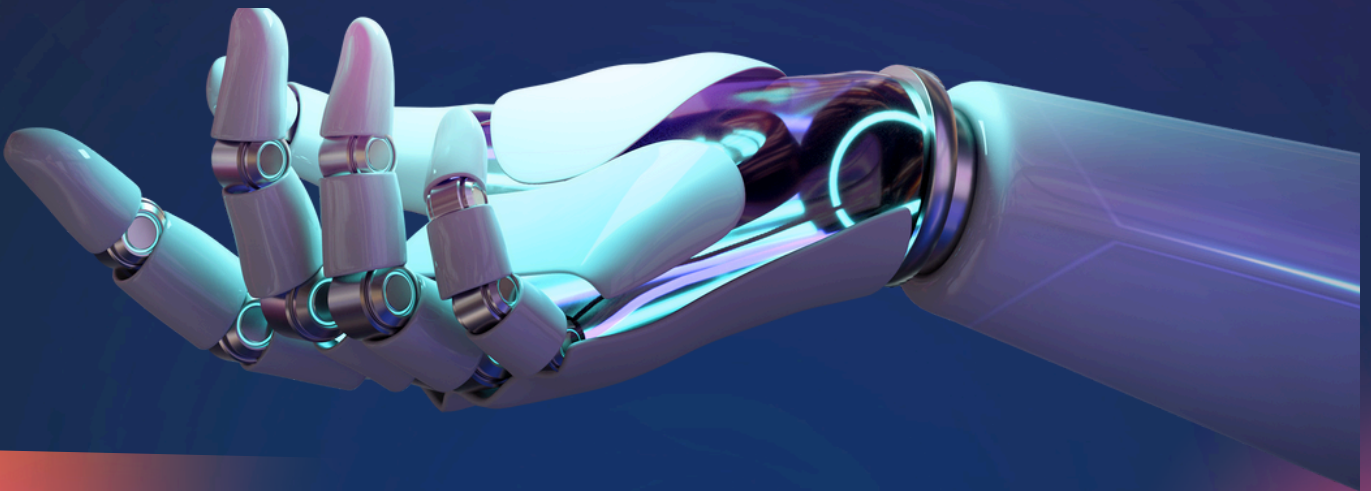SHRIDEVI
SHRIDEVI
EDUCATION
HACKATHON

NATIONAL LEVEL HACKATHON

CODE - CREATE - CONQUER

29-10-2024 to 30-10-2024

www.hackathon.shritek.com

ABOUT US

Shridevi Institute of Engineering and Technology

Shridevi Institute of Engineering and Technology (SIET) is located in Tumakuru, Karnataka, and is affiliated with Visvesvaraya Technological University, Belagavi. It is approved by AICTE, New Delhi. The institute was founded in 2002 by Dr. M. R. Hulinaykar, Chairman and Managing Trustee of the Sri Shridevi Charitable Trust (R.), Tumakuru, driven by his passion for education and dedication to his native district. The Trust oversees 12 educational institutions, emphasizing a commitment to fostering learning opportunities.

SIET's mission is to provide high-quality technical education, offering a range of undergraduate and postgraduate programs. The institute has an annual intake capacity of 630 students for undergraduate courses and 207 for postgraduate courses.

Why Hackathon?

Industries today focus on satisfying customer needs, which evolve rapidly. With the pressure of tight timelines for product development and delivery, companies face the challenge of responding quickly to these changing demands. To test employees' efficiency, they are often tasked with designing products on short notice. This has led to the rise of hackathons, where students are given the opportunity to showcase their creativity by designing models from scratch within 24 to 48 hours. These events have gained immense popularity, especially after 2015, with many colleges organizing competitions that push students to work non-stop and come up with innovative solutions. Companies, impressed by the talent and creativity displayed, often recruit top performers from these hackathons.

Shridevi Institute of Engineering and Technology took the initiative to conduct a 24-hour National Level Hackathon on October 29–30, 2024, with themes focused on Agriculture, Environment, and Health Care. A total of 183 teams, each consisting of up to four participants, showcased their innovative ideas and honed their skills to create functional applications. Twelve expert judges, each specializing in different domains, evaluated the teams at various stages of the event. Based on their performance, the top three teams were awarded prize money of Rs. 50,000, Rs. 30,000, and Rs. 20,000. Additionally, the 23 teams that reached the final round received certificates of appreciation for their efforts and creativity.

The event was graced by the Chairman, Principal, Heads of Departments, and faculty members, who actively participated and witnessed the impressive results of the students' hard work and innovation.

First Prize

Second Prize

Third Prize

THEMES

AGRICULTURE

Agriculture is the backbone of our nation, feeding millions and supporting our economy. However, it faces challenges like climate change, resource scarcity, and the need for sustainable practices. This hackathon aims to bring together innovative minds to create impactful solutions.

WHY AGRICULTURE

AGRI-TECH INNOVATION

Leverage AI, IoT, and machine learning to boost crop yields and manage resources effectively for precision farming and sustainable production.

SUSTAINABLE FARMING PRACTICES

Innovate eco-friendly methods to reduce environmental impact in agriculture, focusing on organic farming, natural pest control, and carbon-reduction techniques.

SUPPLY CHAIN & MARKET ACCESS

Build digital platforms to link farmers directly with buyers, cutting out intermediaries, and enhance storage and logistics to reduce post-harvest losses.

FARMER FINANCIAL SUPPORT

Design financial tools like crop insurance and microloans for farmers, and develop mobile apps offering real-time crop advice, disease management, weather updates, and AI-driven market insights.

THEMES

MEDICAL CARE

Healthcare is essential to human well-being, with access to quality medical care being a fundamental need. The sector faces challenges such as rising costs, limited access in remote areas, and a constant demand for advanced treatments. By leveraging technology and innovation, we can improve diagnostic accuracy and treatment efficacy.

WHY MEDICAL CARE?

ADVANCING MEDICAL TECHNOLOGY

Integrate AI, IoT, and machine learning to enhance diagnosis and treatment accuracy.
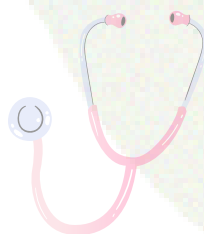
PRECISION MEDICINE

Integrating genetic data with AI enables personalized treatments tailored to individual patients, improving treatment outcomes and minimizing side effects.

IMPROVING HEALTHCARE ACCESSIBILITY

Develop telemedicine platforms to connect patients with healthcare professionals remotely and streamline services to reduce wait times and increase access in rural areas.

DIGITAL HEALTH RECORDS

Implementing electronic health records (EHR) enables seamless sharing of patient data, improving care coordination and enhancing data security.

THEMES

ENVIRONMENT

The environment plays a crucial role in sustaining life on Earth, and its protection is vital for future generations. With increasing pollution, it's essential to adopt sustainable practices to maintain ecological balance. Innovations in technology and sustainable development can help combat environmental challenges.

WHY ENVIRONMENT?

ENVIRONMENTAL PROTECTION

Adopt renewable energy solutions and sustainable waste management practices to preserve natural habitats for future generations.

BIODIVERSITY CONSERVATION

Protect endangered species and ecosystems through conservation efforts and implement policies to restore habitats for a healthier planet.

ECO-INNOVATION

Encourage the development of green technologies and eco-friendly alternatives that minimize environmental footprints and support sustainable development.

CLIMATE ACTION

Develop strategies to reduce carbon emissions, combat climate change, and support green infrastructure projects to mitigate the environmental impact of urbanization.

ESTEEMED JUDGES

RAJENDRA SARANGI

CTO - SCII

ANAND KUMAR

CEO - NEWTRIST

DR.WALIKAR

ASSOC PROF
CMR UNIVERSITY

SHYLAJA H VITTALA

WOMEN
ENTREPRENUR

DR.PRADEEP KUMAR VEGI

CAO - SIMS & RH

DR. KISHORE DRONE

DIRECTOR -
DHANVANTRI

GAUTHAM NAYAK

TECHNICAL DIRECTOR
COMEDKARES

H V GAYATHRI
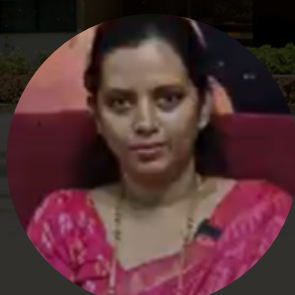
CO-FOUNDER WASTE
MANAGEMENT

ARUN KUMAR

AGRICULTURIST

DR. MANNE MUNIKUMAR

DATA MANAGER - ICMR

SINDHU SRINATHAIAH

PROGRAM MANAGER -
ACCENTURE

NIPUN

CSO - GPS

DR.MAHESH CHANDRA

PROF - REVA UNIVERSITY

DEDICATED MENTORS

MAHESH

SOFTWARE ENGINEER

RAO RAKSHITH

SENIOR DEVELOPER
SCONTI TECHNOLOGIES

Saco

MUBARAK

TRAINER

AVINYO TECHNOWS

GURURAJ

TRAINER

COMEDKARES

GLIMPSES

National level hackathon was Inaugurated by Dr. Pronab Mohanty - IPS,DGP(CID) & Dr. Venkateshwarulu,Vice Chancellor,Tumkur University

Valedictory function presided by Dr. E.V. Ramana Reddy , Chairman Karnataka Skill Development Corporation and Mrs. Nahidha Zam Zam - KAS Registrar, Tumkur University

Interaction with esteemed judges

Evaluation of projects by judges

Tumakuru, Karnataka, India
F2JJ+59W, Tumakuru, Karnataka 572128, India
Lat 13.488008°
Long 77.034497°

Tumakuru, Karnataka, India
F2JJ+59W, Tumakuru, Karnataka 572128, India
Lat 13.488008°

FIRST PRIZE

The Farm Unity(India's First Open Mobility Platform in Agriculture)

Agricultural Theme

INTRODUCTION

Agriculture has been a cornerstone of India's economy, yet its contribution to the nation's GDP has gradually decreased over the years—from **29.76% in the mid-1990s to just 14.8% in 2024.** This shift is not due to a lack of potential but largely due to inefficiencies in farm labor management and limited access to essential services for rural farmers, who **comprise 59% of India's workforce.**

Although modern technology has transformed urban industries, **rural agriculture remains underserved.** Challenges such as the timely availability of labor, skilled technicians, and reliable service providers significantly hinder productivity in rural farming communities. **Many farmers lack access to smartphones** or the digital literacy necessary to navigate advanced agricultural solutions, leaving them dependent on fragmented service providers and resulting in disjointed experiences and inefficiencies.

SOLUTION

"The Farm Unity" is an innovative platform designed to address critical challenges faced by farmers in accessing essential labour, service providers, and information.

Our **Automated IVR (Interactive Voice Response)** system empowers all farmers, labourers, and service providers, covering **both smartphone and basic keypad users.** This ensures universal access to essential agricultural services through **simple voice commands or keypad inputs.**

India's First Open Mobility Platform in Agriculture. Inspired by urban mobility solutions, our platform revolutionizes agriculture by **connecting farmers directly with labour and services.** Features include **real-time booking, transparent pricing,** and **direct connectivity,** potentially boosting agricultural productivity from **14% to over 27%.**

Project GitHub Repo Link:
https://github.com/Venkateshcoder2003/SIH

TEAM MEMBERS

Mokshith B S   Harish Gurakanavar
Venkatesh M   Venkatesh Prasanna Kumar B

SECOND PRIZE

SHE-FIT APP: A HOLISTIC WOMEN DEVELOPMENT APP FOR REPRODUCTIVE, FITNESS AND MENTAL WELL-BEING.

Medical Theme

INTRODUCTION

She-fit is a comprehensive health and wellness platform designed to support women's reproductive health, fitness, and mental well-being. The app offers secure sign-in, allowing users to safely access features tailored to various aspects of women's health. Users can seamlessly navigate through sections dedicated to menstrual and pregnancy tracking, fitness activities, nutrition, and mental health resources, providing an all-in-one solution for women's wellness needs.

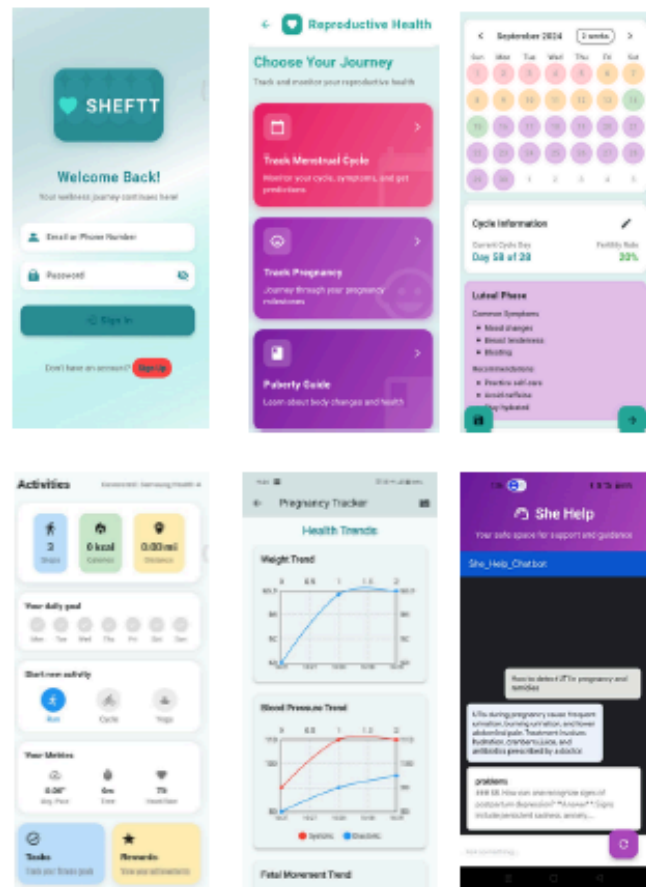### SOLUTION

- **Menstrual Cycle & Pregnancy Tracking:** Provides insights on menstrual phases, fertility windows, and pregnancy milestones, helping users make informed decisions using calendars.
- **Personalized Nutrition & Fitness Goals**: Offers tailored diet recommendations and activity tracking, rewarding users for meeting goals with points redeemable for discounts.
- **Mental Health Support Chatbot:** The "She Help" chatbot provides 24/7 responses to reproductive health queries, offering accessible support.
- **Fitness** : Users can track their daily activities and get weekly tasks, upon completions of tasks, users will get rewards and using rewards, can buy coupons for discounts in various products.
- **Health Calculators:** Includes pregnancy-specific calculators, like the hCG tool, for monitoring health indicators and supporting proactive care.
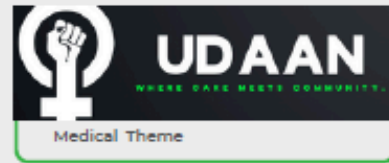
TEAM MEMBERS

Rohith Krishna   Goutham K P
Akash Kumar Singh   Rahul O P

Download our APP

Project GitHub Repo Link: https://github.com/Team-POV/She-fit-app

National Level Hackathon | 29th & 30th Oct 2024

THIRD PRIZE

Udaan: GenAI-Powered Single Mother's Wellness Companion

Medical Theme

INTRODUCTION

A 2019 study by UN Women revealed that patriarchal India is home to 4.5 crore single mothers.But do we ever stop to consider the mental health of single mothers — women from diverse backgrounds who navigate immense stigma, chronic stress, and a lack of supportive community? These struggles don't just affect their personal well-being, they can deeply impact their ability to grow professionally.

Even with such staggering numbers, there remains a lack of a unified, comprehensive dedicated platform that addresses the medical, upscaling and social needs essential for supporting their mental health.

SOLUTION

UDAAN is designed to revolutionize mental health assurance by bringing together medical, social, upscaling and emotional resources regardless of language barriers.

Key features include role-based authentication for Single Mothers and NGOs, AI-powered moderated communities for safe interactions, and NammaSakhi, an AI assistant providing medical and emotional support through voice interaction, sentiment analysis, symptom checks, diet planning, and appointment scheduling. Udaan also provides access to affordable medical lab tests, opportunities like government schemes, workshops, job listings, and NGO-led training with progress tracking.

Our mission is to uplift and empower single mothers by providing them with the comprehensive care they deserve.
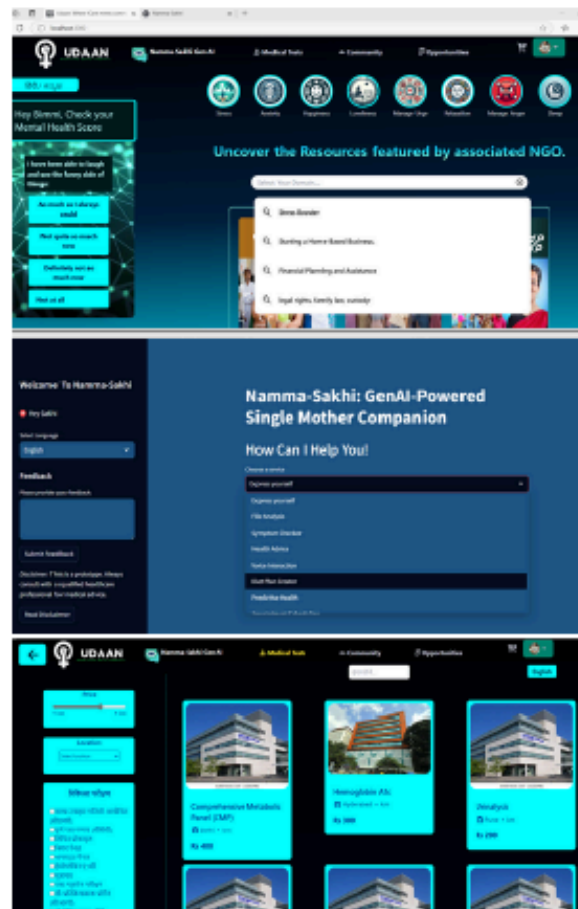

Project GitHub Repo Link:

TEAM MEMBERS

1.Rajnish prasad Kalwar

2.Bimmi Kumari

3.Suhas JK

JUDGES DESK

"Grateful to Shridevi College of Engineering for hosting an inspiring national-level hackathon with over 182 teams tackling key challenges. It was an honor to mentor teams in the agriculture domain and speak on advancing agri-tech."

Dr. AT Kishore
Director

"I am grateful to Shridevi College of Engineering for organizing an inspiring national hackathon with over 182 teams addressing key challenges. It was a privilege to mentor teams in the agriculture domain and share insights on advancing agri-tech."

Dr.Walikar
Associate Professor

"I am impressed by the active participation of the students, showcasing innovative ideas across various domains. Thank you to Shridevi College of Engineering for providing such a platform for creativity and problem-solving."

Mahesh
Software Engineer

"The National Level Hackathon at Shridevi Institute of Engineering and Technology has been a brilliant experience! Over 180 teams showcased incredible ideas in environment, agriculture, and healthcare. Looking forward to more hackathons that inspire young minds to create transformative solutions."

Gautham Nayak
Program Director
Comedkares

PARTICIPANTS FEEDBACK

"Our team participated in the national-level hackathon hosted by Shridevi College of Engineering, where around 200 teams competed. We developed India's first open mobility platform to support farm laborers, farm owners, and service providers. I am honored to share that we won 1st prize!"

Mokshith B S

SIT - Tumkur

"Our team developed 'SeeFit,' an app focused on women's reproductive health, fitness, and mental well-being. I am proud to share that we won second prize for our work. Competing with over 180 teams was a fantastic experience. Thank you, Shridevi College of Engineering, for this opportunity!"

Rohith Krishna

AIT-Bangaluru

"Winning third place in the Hackathon with Udaan has been an incredible experience. Udaan, our Gen AI-powered wellness companion, supports single mothers by addressing challenges like mental health and personal growth. We are proud to have created a solution that prioritizes their well-being and makes a meaningful difference."

Binny kumari

SIET- Tumkur

"Being here at SIET Tumkur for the 24-hour National Hackathon has been an incredible experience! The energy is amazing, and the dedication from the faculty and volunteers is inspiring. Their hard work is evident in every aspect of the event, from the smooth activities to the constant support. I feel grateful to be part of such a well-organized and impactful event."

Chiranth

SJCE-Bellur

CHAIRMAN'S MESSAGE

Dr. M.R. Hulinayakar

Chairman, Sri Shridevi
Charitable Trust (R.)

"The successful completion of our national-level hackathon is a testament to the hard work, dedication, and meticulous planning of the organizing committee. I deeply appreciate their efforts in creating a platform for students to showcase their innovative ideas and solutions. Their commitment to excellence has brought great credit to our institution, and I wholeheartedly congratulate them on this outstanding achievement."

MESSAGE FROM MANAGEMENT

Sri.M.S. Patil

Director- HR & IT, SCT

"I am impressed by the exceptional organizational skills and leadership displayed by the organizing committee, student volunteers, and the entire team at SIET. Their ability to manage logistics, coordinate with participants, and ensure the seamless execution of the event is commendable. I deeply appreciate their tireless efforts in making this event a grand success and setting a high standard for future events."

Dr. Raman M Hulinaykar

Medical Director - SIMS & RH, Trustee, SCT

"Team SIET has demonstrated exceptional teamwork, creativity, and problem-solving skills in organizing this national-level hackathon. Their dedication to providing a world-class experience for participants, judges, and sponsors is evident in every aspect of the event. I am proud of their achievements and grateful for their contributions to enhancing our institution's reputation."

THANKS GIVING

Dr.Narendra Viswanth

Principal, SIET Academic Senate Member, VTU

"I appreciate the organizing committee for hosting the National Level Hackathon at SIET Campus. Their meticulous planning and commitment to excellence resulted in a highly successful event that showcased our institution's capabilities and provided a valuable learning experience for participants."

Dr. Girish.L

Chief Convenor & Skill Coordinator
Head.Dept. ofAI & DS

"On behalf of the Hackathon committee, I extend my gratitude to the management of SCT for their support and the participants whose enthusiasm and innovation made this event a success."

Mr. Chethan.N

Training & Placement Officer

"I am delighted to have played a key role in organizing our national-level hackathon. The event's success reflects our team's ability to work together towards a common goal. I appreciate the contributions of each team member."

shridevihackathon@gmail.com