MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS)

Vaniyambadi, Tirupattur District-635 751

32 Years of Educational Excellence...

Recognized u/s 2(f) & 12(B) of UGC Act 1956 | Accredited with "A+" Grade by NAAC (4th Cycle) | Permanently Affiliated to Thiruvalluvar University | An ISO 21001:2018 Certified Institution | Supported by DST-FIST

SCHOOL OF COMPUTING SCIENCES

Jointly Organizes

DST FIST Sponsored Internship on

Automation in Healthcare & Agriculture

19.06.2025 to 07.07.2025
@ 10.00 AM

Trainer

Mr. M . INAYATHULLAH

Technical Trainer

Registration Fees : Rs. 1000
Certificate will be provided

Venue :
AV Room & AI Lab

Anand Singhvi	**Dr. M. Inbavalli**	**Dr. D. Jasmine Priskilla**
Secretary	**Principal**	**Dean, School of Computing Sciences**

Dr.K.Priya	**Ms.T.Thenmozhi**
Convener	**HOD(i/c)-CA**

PRINCIPAL
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Automation in Healthcare & Agriculture

AGENDA

Date:19.06.2025 to 07.07.2025
Time:10.00 AM

VENUE :AV ROOM & AI LAB

Host	**: Ms. N. Nimra Irtheza III-B.SC CS**
Prayer	**: Ms.Kadaikar Qamar Saima III-BCA**
Welcome Address	
Felicitation	**: Dr.M.Inbavalli Principal,MKJC**
Introduction of Guest	**: Ms.R.Vedhavalli III-B.SC CS**
Chief Guest Address	**: Mr.M.Inayathullah Technical Trainer**
Vote of Thanks	**: Ms. Haniya Fathima III-BCA**

NATIONAL ANTHAM

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MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS), VANIYAMBADI

Activity Report

Title	Automation Healthcare & Agriculture		
Organized By	School of Computing Sciences		
Type of Activity	Internship		
Level	Institution Level		
Date	19.06.2025 to 07.07.2025	**Time**	10.00 am to 4.00 pm
Venue	AV Room and AI Lab	**Mode**	Offline
Resource Person Details	**Mr.M.Inayathulla, Technical Trainer, Amagine Edu, Chennai**		
Objective of the Programme	To apply academic knowledge and technical skills to real world problem enhance operational efficiency and support sustainable and intelligences solution that improve quality of life and agriculture productivity		
Internal Participants Count	**Students : 50** **Faculty : Nil**	**External Participants Count**	**Students : Nil** **Faculty : Nil**

Summary

The Department of School of Computing Sciences organized internship on "Automation in Healthcare & Agriculture". This internship program offers hands-on experiences in the application of automation technologies within the healthcare and agriculture industries. Interns will explore the integration of emerging tools such as Iot(Internet of Things), robotics, artificial intelligences, and data analytics to improve efficiency, accuracy, and sustainability. In the healthcare domain, the focus may include smart diagnostics, automated monitoring system, and assistive robotics.

The primary goal of this project is to develop a mobile application that predicts potential diseases based on user inputs(such as symptoms, vitals and lifestyle factors) using Artificial Intelligences and Machine Learning(AI/ML) models. The app aims to assist in early detection, increase health awareness, and guide towards seeking timely medical help.

Technology Stack:

- **Frontend:** Flutter / React Native (cross-platform mobile development)
- **Backend:** Python (Flask/Django), Firebase or Node.js
- **AI/ML Models:** Trained using datasets from open health repositories (e.g., UCI, WHO datasets)
- **Libraries/Frameworks:** Scikit-learn, TensorFlow/Keras, Pandas, NumPy
- **Version Control:** Git and GitHub for collaborative development and code management

Features:

- Symptom-based disease prediction using ML classification models (e.g., Decision Trees, Random Forest, or Deep Learning)
- User-friendly interface for inputting symptoms and viewing prediction results
- Health tips and disease descriptions based on predicted outcomes
- Secure user authentication and data storage
- GitHub integration for collaborative code development and version tracking

Workflow:

- Data collection and preprocessing from reliable health datasets
- Model training and evaluation to ensure prediction accuracy
- Integration of the trained model into the mobile app
- UI/UX design and development for smooth user experience
- Deployment and testing on Android/iOS platforms

- **Key Outcomes**

  - Gained hands-on experience in building real-world machine learning models for disease prediction using health-related datasets
  - Developed a user-friendly mobile app interface using tools like Flutter or React Native, ensuring accessibility on Android and iOS.
  - Successfully trained and deployed ML models within a mobile environment, demonstrating full-stack integration from backend to frontend.
  - Used Git and GitHub effectively for version control, collaborative development, and maintaining clean, documented code.
  - Focused on creating an intuitive user experience, making complex AI predictions understandable and accessible to non-technical users.
  - Practiced working in teams with agile methods such as sprint planning, issue tracking, and code reviews through GitHub.
  - **Preparedness for Real-World Projects :** Built the foundation to scale or integrate such apps into telemedicine platforms or healthcare advisory services.

HOD **IQAC Director** **Principal**

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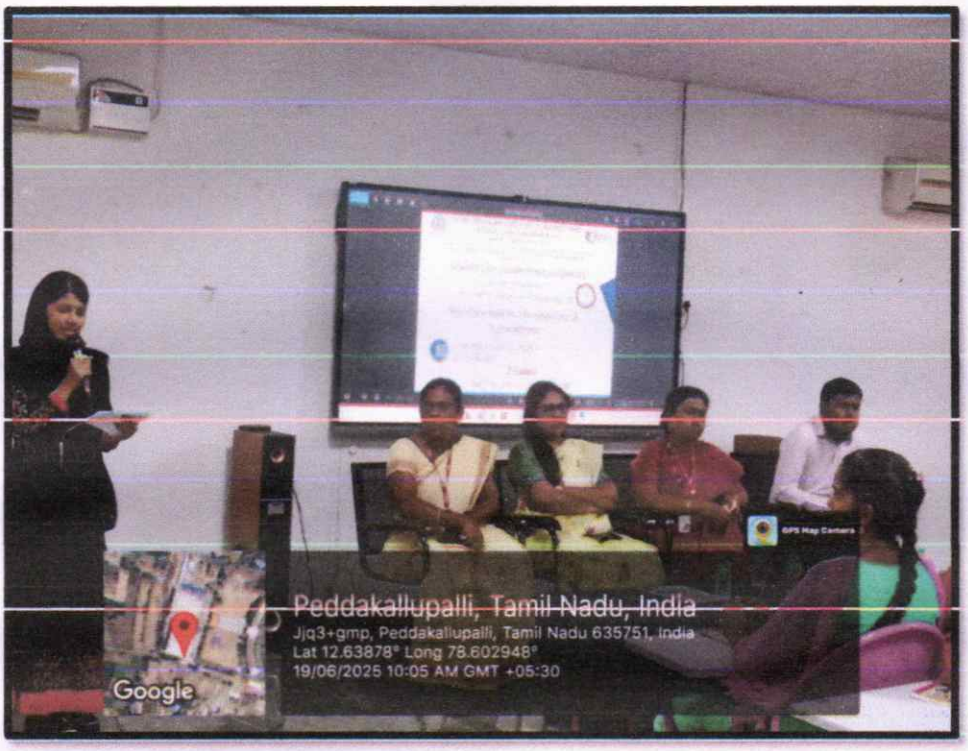

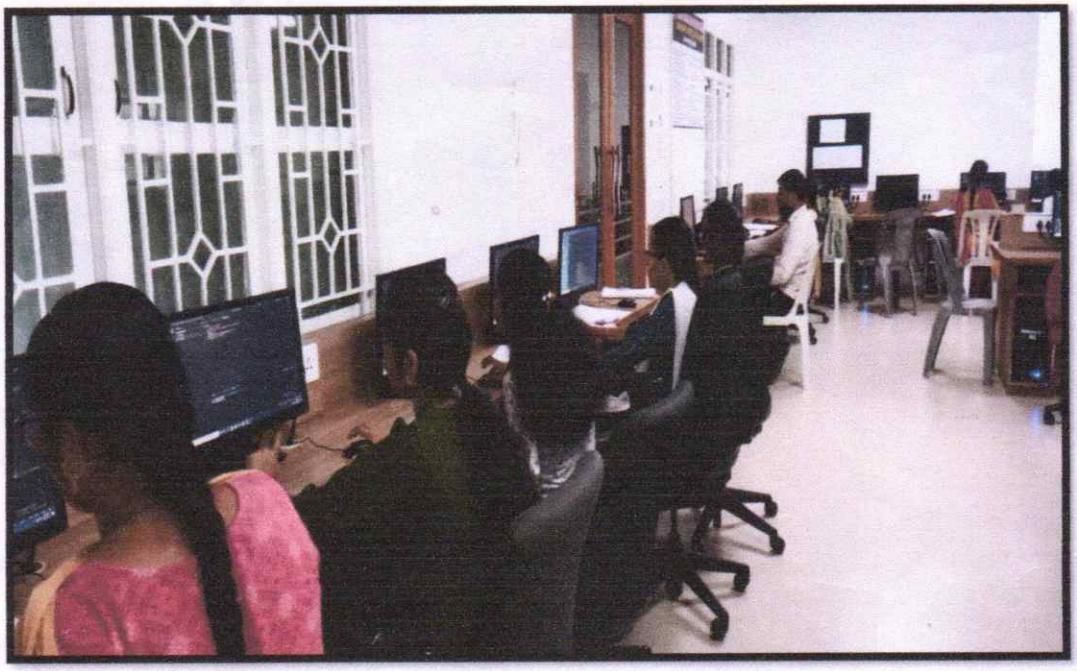

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