# “SAMVED” HACKATHON 2026

- **Problem Statement ID –**PS-002
- **Problem Statement Title-** “Solapur Smart Healthcare, Emergency Analysis & Appointment Booking System”
- **Theme-** Smart Healthcare systems
- **Team ID-**30FE4DBF
- **Team Name-** HackHers

MIT Vishwaprayag University

सोलापूर महानगरपालिका, सोलापूर

HackHers

# MEDIBRIDGE AI- SMART HEALTH CARE ACCESS PLATFORM

सोलापूर महानगरपालिका, सोलापूर

MIT Vishwaprayag University

## ❖Proposed Solution

**Detailed Explanation:**

•City-wide healthcare platform for Solhapur
•Analyzes patient urgency based on symptoms
•Displays hospital availability and crowd status
•Enables quick appointment booking for faster treatment

**How it Addresses the Problem:**

• Minimizes treatment delays.
• Makes healthcare access faster and more organized.

**Innovation and Uniqueness:**

•**City-wide emergency-aware healthcare system** that analyzes patient urgency and hospital crowd to suggest the best hospital.
•**Smart appointment booking with priority handling** to reduce delays and ensure faster treatment during critical situations.

HackHers

# TECHNICAL APPROACH

सोलापूर महानगरपालिका, सोलापूर

MIT Vishwaprayag University

- **Frontend**: Developed using React.js to create a user-friendly interface.
- **Backend**: Built using Node.js and Express.js to handle business logic and APIs.
- **Database**: MySQL/MongoDB used to store user and appointment data.
- **Security**: JWT authentication and password encryption implemented.
- **Testing**: Unit and integration testing performed.
- **Deployment**: Application deployed on a server for user access.

HackHers

# FEASIBILITY AND VIABILITY

सोलापूर महानगरपालिका, सोलापूर

MIT Vishwaprayag University

**Analysis of Feasibility:**

• The solution is feasible as it uses existing web and AI technologies.

• Online appointment systems and AI guidance can be implemented with current tools and databases.

**Potential Challenges and Risks:**

• Accuracy of symptom-based recommendations.

• Data privacy and security concerns.

• Limited internet access in rural areas.

**Strategies to Overcome Challenges:**

• Continuously improve AI recommendations using medical datasets.

• Provide lightweight and mobile-friendly platform versions.

• Partner with clinics and healthcare providers for adoption.

HackHers

# IMPACT AND BENEFITS

सोलापूर महानगरपालिका, सोलापूर

MIT Vishwaprayag University

**Potential impact on the target audience:**

- Helps patients quickly find the right doctor and receive timely treatment.
- Improves healthcare access, especially for rural and underserved communities.
- Saves time and reduces stress in medical decision-making.

**Benefits of the solution:**

- Social: Improves healthcare accessibility and awareness for all users.
- Economic: Reduces unnecessary hospital visits and saves travel costs.
- Environmental: Promotes digital records, reducing paper usage in healthcare systems.

HackHers

# RESEARCH AND REFERENCES

सोलापूर महानगरपालिका, सोलापूर

MIT Vishwaprayag University

**Details / Links of the reference and research work:**

Research & Academic References:

- https://arxiv.org/abs/2412.12538
- https://www.onlinescientificresearch.com/journals/jaicc/articles/aipowered-online-symptom-checkers-enhancing-accuracy-and-guiding-users-to-appropriate-medical-care.html

Articles & Industry Insights:

- https://www.oxfordcorp.com/en/insights/blog/self-diagnosis-using-ai-implications-for-health-systems-and-patients
- https://www.doctronic.ai/blog/10-benefits-of-artificial-intelligence-in-healthcare/