



AiTech Smart MakkaRing Hajj/Umrah Platform Competitive Analysis

AiTech-USA Patented Technology • Dover, USA

AiTech Smart MakkaRing Platform

The World's First AI-Powered Safety & Intelligence
Platform for Hajj & Umrah

From Reactive → Predictive → Intelligent



Smart MakkaRing

On-pilgrim monitoring, tracking & SOS



Mobile App

Live tracking, alerts & family connectivity



AI Engine (Cloud)

Predictive risk detection & intelligence



Command Dashboard

Real-time control for authorities

One Platform. Complete Visibility. Intelligent Safety.

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From Basic Hajj Tools → to Smart MakkaRing Hajj Infrastructure



AI-Powered • Real-Time Tracking • Health Monitoring • Ministry-Controlled

BASIC HAJJ DEVICES

(ID Bracelets / Cards / Tags)



⚠️ LIMITED CAPABILITIES

- ✗ Identification only (Name / ID number)
- ✗ No real-time location tracking
- ✗ No health monitoring
- ✗ No emergency response system
- ✗ No predictive risk alerts
- ✗ No integration with ministries or services

➔ REACTIVE TOOLS – No protection before incidents occur

SMART MAKKARING HAJJ INFRASTRUCTURE

AI-Powered • Connected • Ministry-Controlled



ENSURING EVERY PILGRIM IS SAFE, GUIDED & NEVER LOST

Safe • Guided • Never Lost • Safe • Confident • Enjoyed

Why AiTech Smart MakkaRing Wins

The Only End-to-End AI Platform Purpose-Built for Hajj & Umrah

-  **Full Hajj/Umrah Intelligent Ecosystem**
Integrated ring, app, AI & dashboard
-  **AI-Powered Intelligence**
Predictive alerts & real-time response
-  **Purpose-Built for Pilgrimage**
Heat stress, crowd density, lost pilgrims, emergencies
-  **Real-Time Command & Control**
Authorities gain full visibility & instant response
-  **Scalable to Millions**
Built for national-scale deployment

Others Track. We Protect, Predict, and Control.

AiTech-USA Patented Technology • Defensible IP
AI Models • Platform Architecture

Feature	Traditional	MakkaRing
Real-Time Health Monitoring	✗	✓
Location Tracking	✗	✓
AI Risk Prediction	✗	✓
Remote Family Tracking	✗	✓
Telehealth Services	✗	✓
Complete Ritual Services	✗	✓

From Basic Gadgets → to Intelligent Wearables System

Typical Hajj Gadgets



Typical Hajj Gadgets

- ✗ Limited to One Function
- ✗ Basic Step Tracking Only
- ✗ No AI Health Insights
- ✗ No Real-Time Tracking
- ✗ No Emergency Support
- ✗ No Integration

Smart MakkaRing



REAL-TIME
LOCATION TRACKING
(opS - Geolencing)



TELEHEALTH SERVICES



REAL-TIME
HEALTH MONITORING



TELEHEALTH SERVICES

From Tracking Pilgrims → to Managing Hajj at National Scale