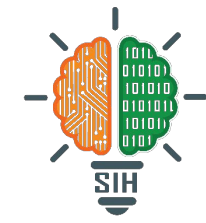
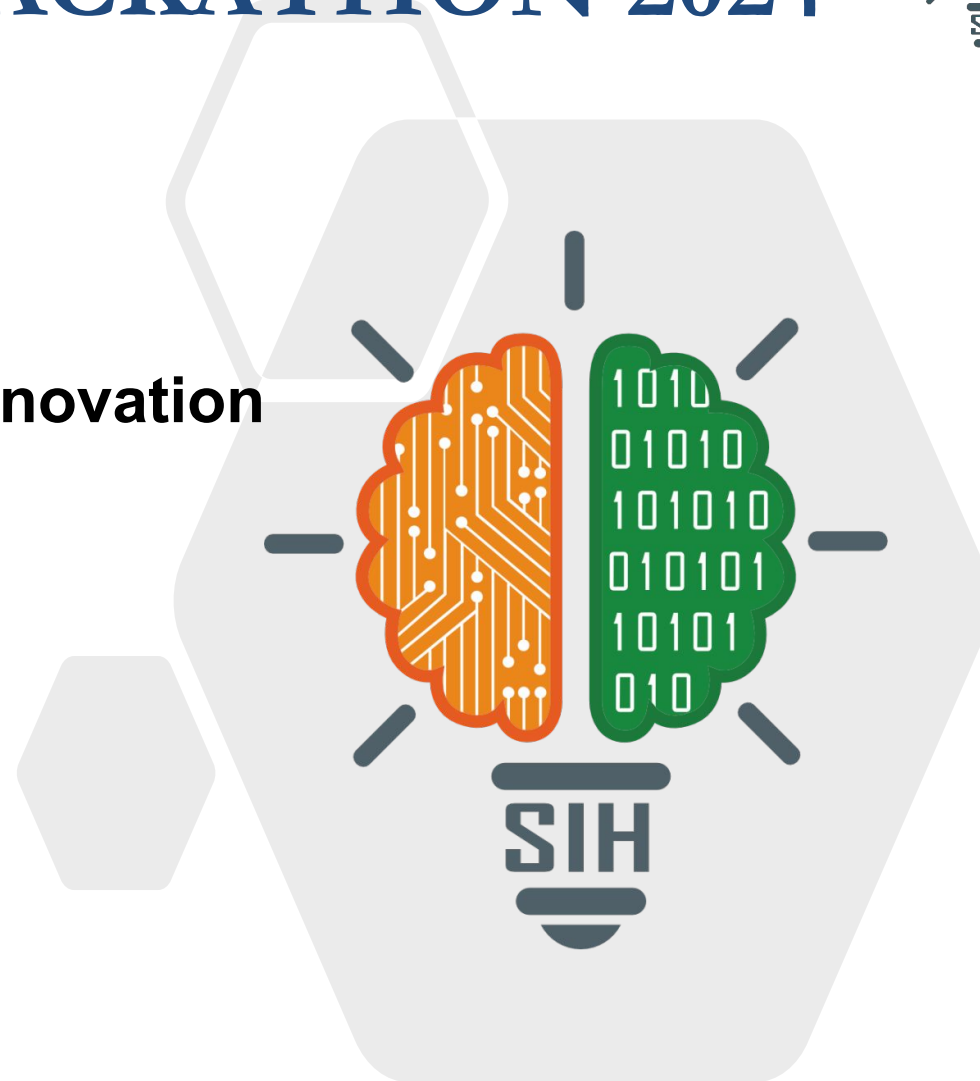


SMART INDIA HACKATHON 2024



**SMART INDIA
HACKATHON
2024**

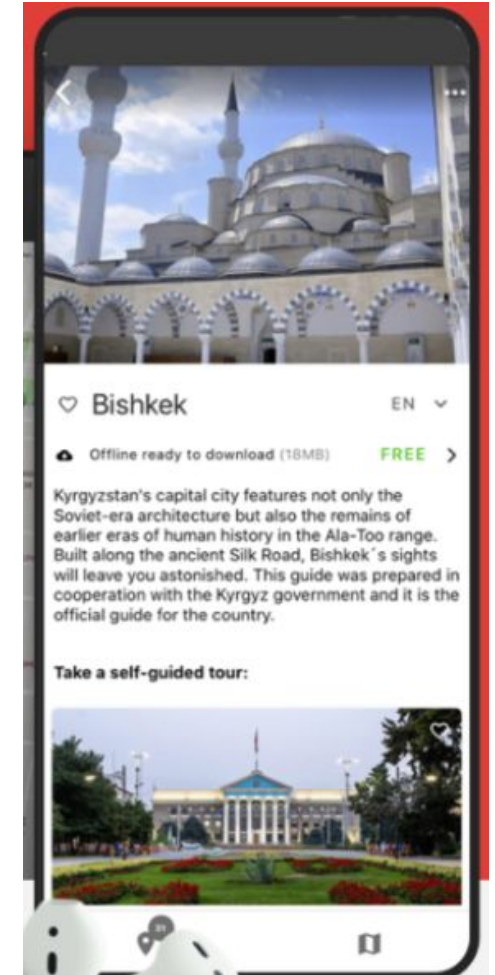
- **Problem Statement ID – SIH1531**
- **Problem Statement Title- Student Innovation**
- **Theme- Travel and Tourism**
- **PS Category- Software**
- **Team Name – The Semicolons**



❖ Proposed Solution:

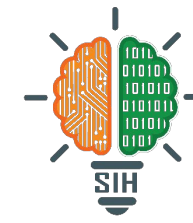
- An app that monitors
 - real-time crowd levels at tourist destinations, recommends the best times to visit
 - suggests nearby less-crowded alternatives
 - facilitates bookings for those alternatives.
- The app would **alleviate overcrowding** by guiding tourists to visit popular destinations during off-peak times, reducing the strain on local resources.
- By combining live **data analytics**, **predictive algorithms**, and alternative destination suggestions, the app not only enhances the tourist experience but also alleviates overcrowding and supports **sustainable tourism**.

- **cloud Infrastructure & Mobile Frameworks:** AWS/GCP, React Native, Flutter.
- **APIs, Data Analytics & Security:** RESTful APIs, Machine Learning, SSL, OAuth.
- **Web Technologies:** React.js, Angular.js, WebSockets.
- **Payment & Geolocation:** Stripe, PayPal, Geolocation Services.



- **Technical Feasibility:**
 - Real-time Crowd Monitoring, Data Integration, User Interface
- **Economic Feasibility:**
 - Cost, Revenue Generation and Scalability
- **Operational Feasibility:**
 - Data Privacy, Collaboration with Local Authorities, Maintenance and Updates
- **Market Feasibility:**
 - User Adoption, Competition
- **Potential challenges and risks**
 - Overburdened Facilities, Technological Limitations, Data Inaccuracy, Privacy Issues
- **Strategies for overcoming these challenges:**
 - Limit Visitors, Help Tourists Plan, Address Privacy Concerns, Overcome Technological Limitations

1. Data Driven Insights
2. Targeted Visitor Distribution
3. Time Efficiency
4. Personalised Recommendations



- <https://www.tiqets.com/nl/> (prototype)
- <https://onlinelibrary.wiley.com/doi/10.1155/2018/7361597> (research article)