Vidyayāmruthamashnuthe

# B. N. M. Institute of Technology

An Autonomous Institution under VTU.

## BNMIT in association with IBM India

# EVolve


## 36 Hours Hackathon

15th to 17th June 2023

8 am to 8 pm every day

NAAC A

NBA National Board of Accreditation

nirf 201-250 Band

ARIIA Atal Ranking of Institutions on Innovation Achievements

Institution's Innovation Council (Ministry of HRD Initiative)

QS I-GAUGE Indian College Rating DIAMOND

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# Name of the team

## 80085

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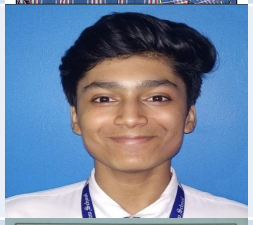
# Details of Team members

| TEAM MEMBER NAME | USN / Register Number | Recent Passport Photo |
|---|---|---|
| Radha Krishna Garg | 21BCE7371 |  |
| Md. Anas Jamal | 21BCE7711 |  |
| Tanmay Saxena | 21BCE8269 |  |

# Contact email ID and phone number of the team leader

| Leader Name | Email ID | phone number[ WhatsApp] |
|---|---|---|
| Radha Krishna Garg | krishna.garg010604@gmail.com | 8824827210 |

# Choice of theme:
# Theme 1 / Theme 2

| Theme Number | Theme 1 |
|---|---|

# Problem statement (50 words)

Many travelers struggle with the overwhelming task of planning their trips efficiently, often missing out on personalized recommendations and real-time information. Existing travel resources lack the ability to offer tailored suggestions based on individual preferences, resulting in suboptimal travel experiences.

# Proposed solution (200 words)

We propose developing a Virtual Travel Guide AI that revolutionizes trip planning. Our AI will utilize advanced algorithms and data analysis techniques to provide personalized travel itineraries, recommendations, and real-time information. By understanding user preferences, budget constraints, and travel dates, our solution will offer tailored suggestions and optimize travel plans, ensuring a memorable and customized experience for every traveler.

# Software/Hardware components needed for this implementation and approximate cost

**Software Components:**
Python: Programming language for AI development and data processing.
Natural Language Processing (NLP) Libraries: NLTK, spaCy, etc., for text analysis and understanding user queries.
Machine Learning Algorithms: Collaborative filtering, content-based filtering, etc., for personalized recommendations.
Web Scraping Tools: Beautiful Soup, Selenium, etc., to collect real-time data from travel websites and APIs.
Web Development Framework: Django, Flask, etc., for creating an interactive user interface.
Database: MySQL, PostgreSQL, etc., for storing travel data and user preferences.

**Hardware Components:**
Computing Devices: Standard laptops or servers with sufficient processing power and memory to handle data processing tasks.

**Approximate Cost:**
The cost of implementation will vary depending on factors such as the size of the team, development time, and specific hardware requirements. However, a rough estimate for the software components and development could range from 50,000 to 100,000, considering the cost of hiring developers, utilizing open-source tools, and potential expenses for cloud hosting and database management. Hardware costs can vary based on existing resources or the need to procure servers, but a basic setup should be sufficient for development purposes.

# References if any

None

# Thank You