

# TRAE AI IDE Hackathon: Startup Mate

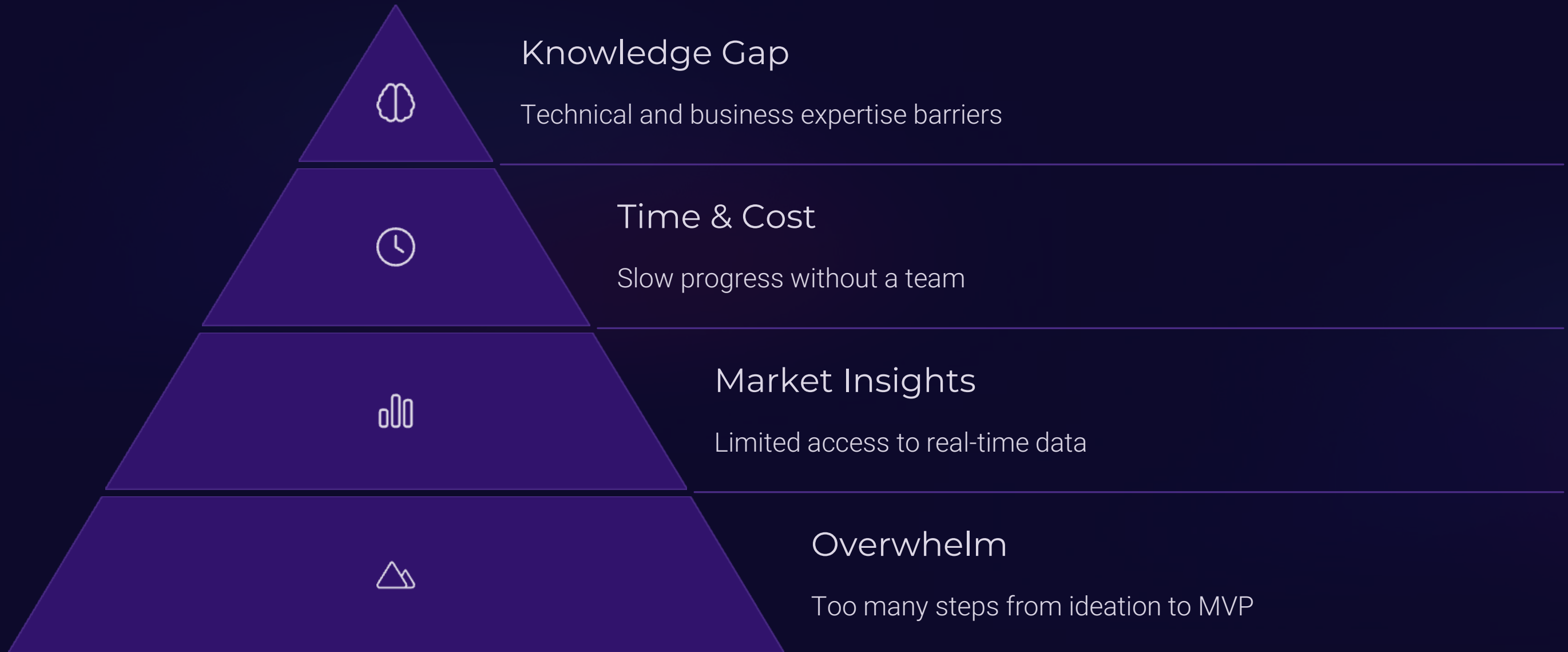
Welcome to our hackathon project developed at TRAE AI IDE Hackathon 2025.

Startup Mate is your AI Co-Founder - a GenAI-powered platform designed specifically for aspiring founders.

by **Team CREW**



# The Problem: Barriers for Solo Founders



# Our Solution: Startup Mate – AI Co-Founder

## Comprehensive Support

GenAI assistant that guides your entire startup journey from concept to launch.

## Step-by-Step Process

Ideates, validates, and plans with you through each phase of development.

## Real-Time Research

Leverages RAG technology to provide up-to-date market insights for decisions.

# Feature Highlights



## AI-Driven Validation

Analyzes market trends and competition to validate your concept.



## Feature Roadmapping

Automates MVP scoping and creates detailed feature plans.



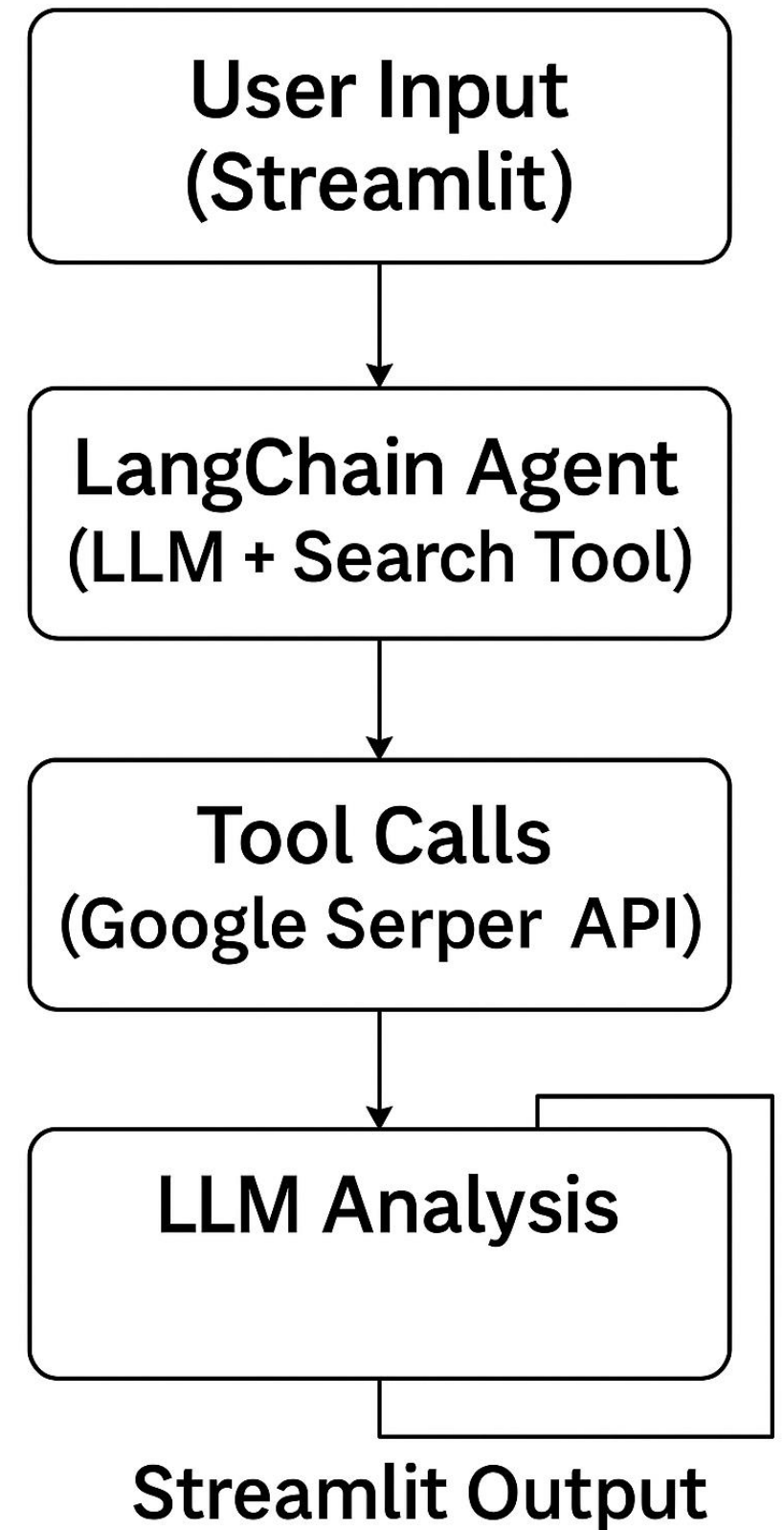
## Pitch Materials

Generates dynamic pitch decks and business models.



## Real-Time Insights

Provides web research using advanced RAG technology.



# Tech Stack

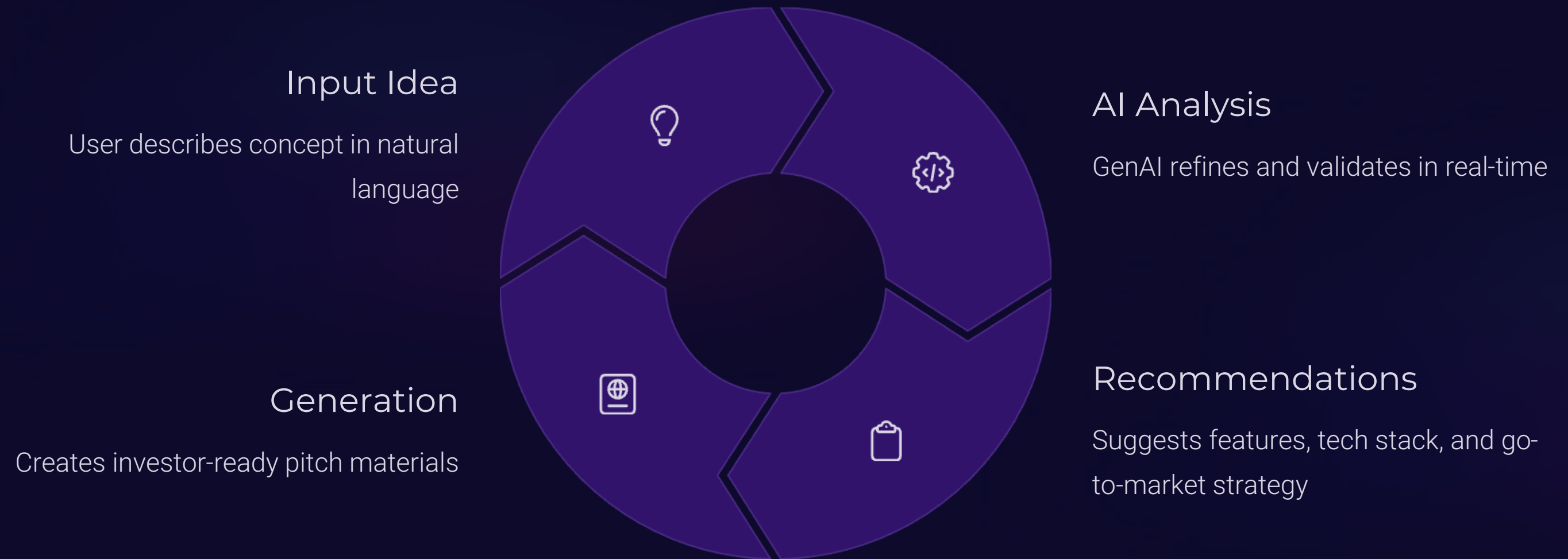
## Technologies Used:

- LLM: Novita AI (LLaMA 4 Scout)
- Search Tool: Google Serper API
- LangChain Agents for tool orchestration
- Trae AI IDE for buiding project
- Streamlit for fast UI prototyping
- Secrets management for secure API handling

# Tech Challenges Tackled

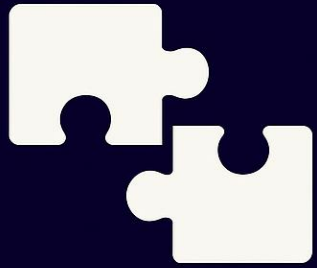
- Tool + LLM integration using LangChain Agents
- Real-time web search results parsed into JSON format
- Prompt engineering for investor and persona extraction
- Cold email writing pipeline using LLM chaining
- Streamlit UI with conditional flows and caching via session\_state

# How Startup Mate Works





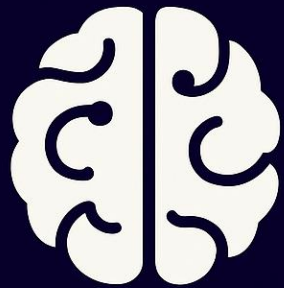
# What Sets Us Apart



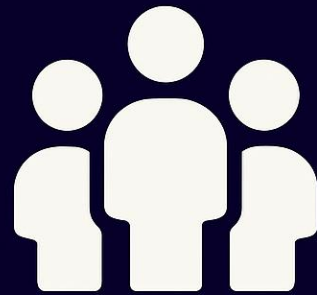
**End-to-End  
Support**



**80% R&D  
Automation**



**Adaptive  
Learning**



**Democratized  
Access**

## End-to-End Support

Complete platform versus niche AI tools that only solve single problems.

## 80% R&D Automation

Handles the majority of initial research and development tasks.

## Adaptive Learning

Continuously improves by learning from each startup's unique context.

## Democratized Access

Makes entrepreneurship accessible for non-technical users.

# Impact: Empowering Future Founders



## Accelerated Timeline

From months to days for ideation-to-MVP



## Reduced Costs

No large team needed for early stages



## Inclusive Entrepreneurship

Levels playing field for underrepresented founders

Success story: Our first user went from idea to validated pitch in just 36 hours.



Product App

## Product Evolution



# Next Steps & Vision



## Integration

Add no-code MVP builders and research sources



## Community

Implement feedback loops and feature requests



## Growth

Become the default AI co-founder for indie hackers



## Expansion

Create specialized vertical solutions

# Meet the Team



Ahsan Bilal - Tech Lead

3+ years in AI/ML development. Specializes in RAG implementation and LLM fine-tuning.



Sharjeel - Product Designer

UX specialist with startup experience. Creates intuitive interfaces for complex AI tools.



Abdullah - Business Strategist

Former founder with multiple exits. Drives product vision and go-to-market strategy.



Junaid - Operations Manager

Oversees daily operations and ensures efficient workflow. Experienced in scaling startups.



Birhanu - Marketing Lead

Drives growth strategies and brand awareness. Proven track record in digital marketing.



Amina - Team Lead

Drives the team for results. Experienced in team handling and meeting deadlines.



# Important Links

GitHub Repo.

[https://github.com/AhsanBilal157/Startup\\_Mate](https://github.com/AhsanBilal157/Startup_Mate)

Our Live Project:

<https://startupmate.streamlit.app/>

# Thank You