

PHI-2 TECHNOLOGY HACKATHON

24 HOURS CHALLENGE

THE PHI GENERATION

Securing Trust, Unmasking Deceit: Your Shield
Against Financial Fraud!





Agenda

- 01** Problem
- 02** Solution
- 03** Team Members
- 04** Technologies
- 05** Demo
- 06** Market Analysis
- 07** Competitor Analysis

The Problem

- The impact of fraud on the insurance industry and banking sector in the United States is staggering. Reaching **\$308 billion** each year in the United States, and this figure has been steadily increasing in recent years.
- Likewise, U.S. banks lose **tens of billions of dollars** every year to first-party fraud. The cost of fighting fraud is rising for U.S. banks, with **every \$1 lost to fraud now costing \$4.36** in related expenses.

Solution

- **Meet our App** – Your Graph Detective! – The game-changing solution to combat sophisticated fraud in the insurance, banking, and ecommerce sectors.
- Using cutting-edge **Agent** and **Phi-2** technology, our app unveils hidden connections, identifies patterns, and empowers investigators to detect and prevent fraud with unprecedented precision.



Team Members

- 01** Michael Lively (Team Leader)
- 02** Mat Ritchey
- 03** Asad Ali
- 04** Rumaisa
- 05** Mahnoor Malik
- 06** Muhammad Faisal

TWO Ground-Breaking Questions !

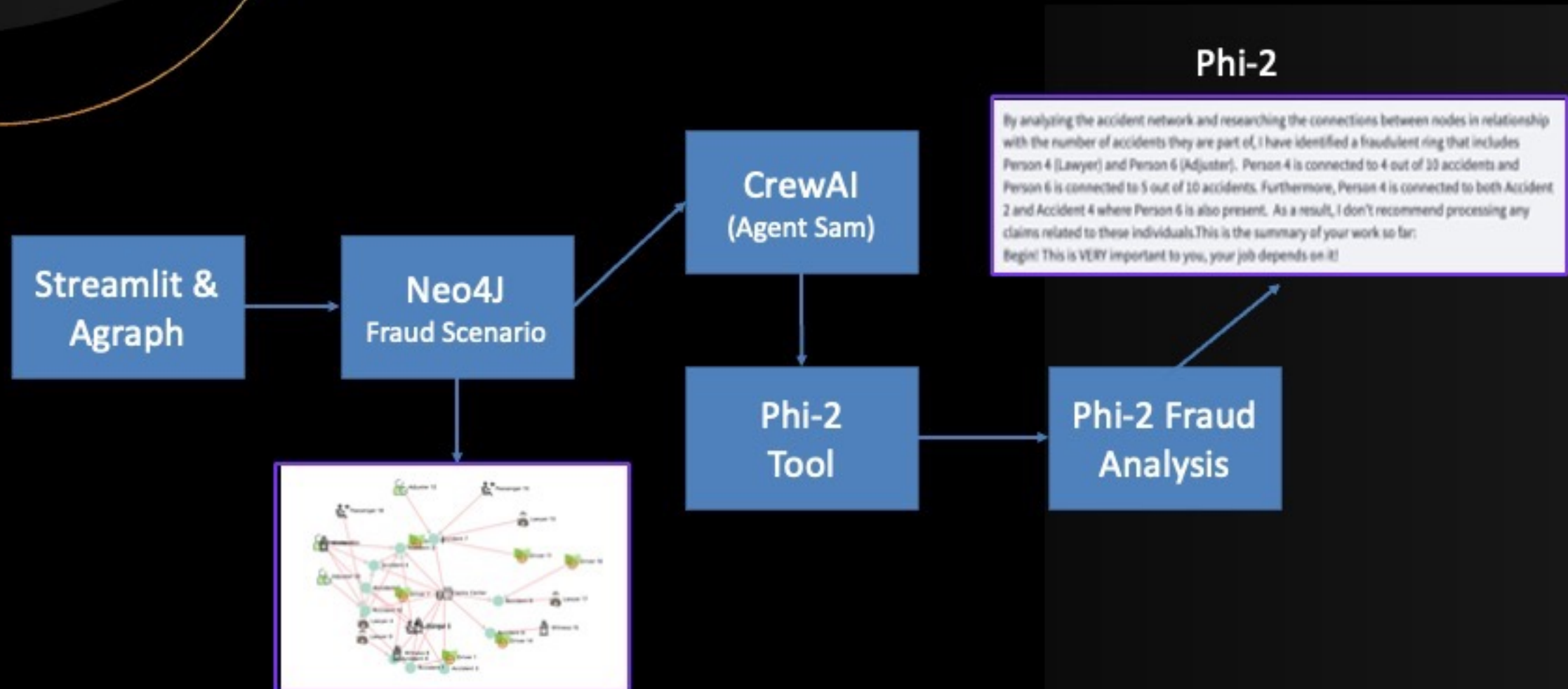
- Can we throw out the middle-man and go directly to data?
- Can we use an agent to do our analysis simply by telling it what to do, as opposed to writing complex code or doing manual analysis?

Yes & Yes!

Tools and Technologies

- 01 Streamlit Agraph
- 02 CrewAI & Gemini
- 03 Phi-2 By Microsoft

Architecture





Phi-2 vs Gemini

- Phi-2 a factor of 4 faster
- Required less tuning of our agent to get consistent answers
- Didn't hallucinate on our simple data set
- Easy to implement as a tool in CrewAI

Time For a Quick
Demo !



Market Analysis

- The insurance industry is projected to grow at **9% annually**, hitting **\$8.4 trillion** by 2026.
- The global banking sector manages **\$370 trillion**, experiencing rapid growth. Where the e-commerce market is expected to hit **\$27.15 trillion** by 2027.
- **Charting the realms of insurance, e-commerce, and banking, our app ensures security and resilience for these critical industries.**

Competitor Analysis

As the industry continues to expand, our innovative solution stands ready to meet the evolving needs of professionals engaged in fraud detection and prevention in Financial Sectors.

What sets us Apart? Utilizing Phi-2 and Agents, Our App uniquely identify hidden connections and patterns, providing an unmatched solution (10,000% Efficiency) in the market.



Thank You!