A logo of a company

Description automatically generated A close-up of a logo

Description automatically generated

**Joint Tech Internship Community Program**

**Assignment: Gen AI Application to Query Over College Alumni Data**

**Problem Statement:**

**Develop an Agentic AI Workflow for Automated Ticket Booking**

Design a fully automated ticket booking system powered by an Agentic AI workflow. The customer interacts with your application via chat to retrieve flight itineraries from third-party APIs. Upon confirmation of a selected itinerary, your application should handle the booking process seamlessly using a third-party API.

**Key Design Considerations:**

1. Leverage the Language Model (LLM) of your choice for natural language interaction.
2. Implement the Agentic workflow using a framework like AutoGen, CrewAI, or any other suitable option.
3. For third-party API integration, you can simulate responses using mock APIs hosted locally (e.g., Python-based REST API endpoints using Flask).
4. Upon booking confirmation, an email should be automatically sent to the customer with the itinerary details.
5. Chat UI could be Python Gradio or web.

**Completion:**

Upload all documents, including design doucuments (which should include your design decisions, diagrams etc), along with code, demo / test videos in your Git folder, and submit the Google Doc form given in the other guidance document.