# AGENTIC AI FOR 3D MODEL PROTOTYPING



MADE FOR THE MIT GLOBAL AI HACKATHON

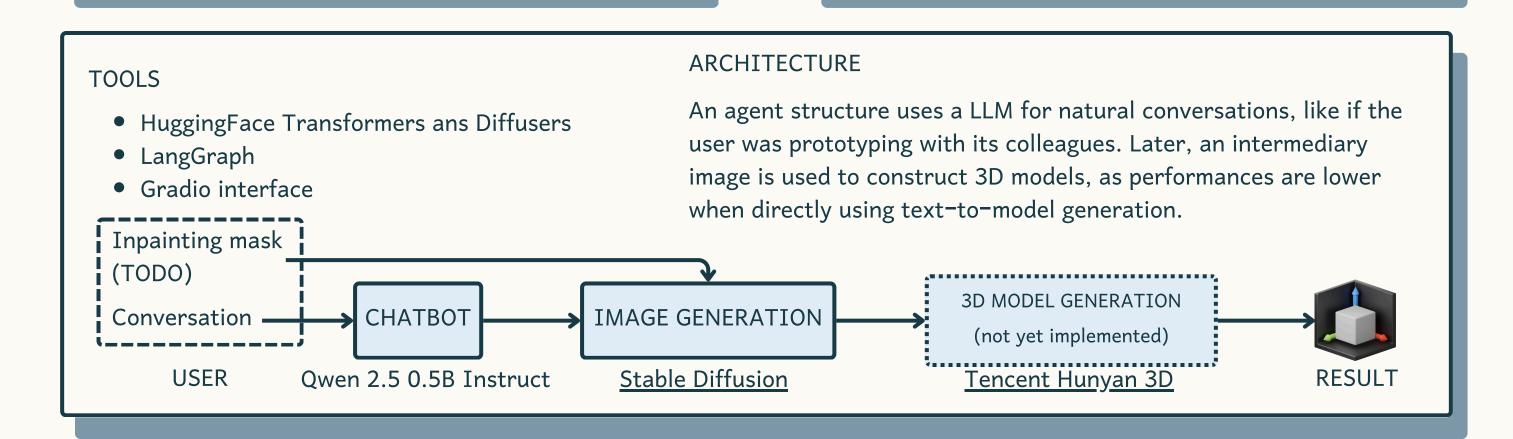
### CONTEXT AND OBJECTIVE

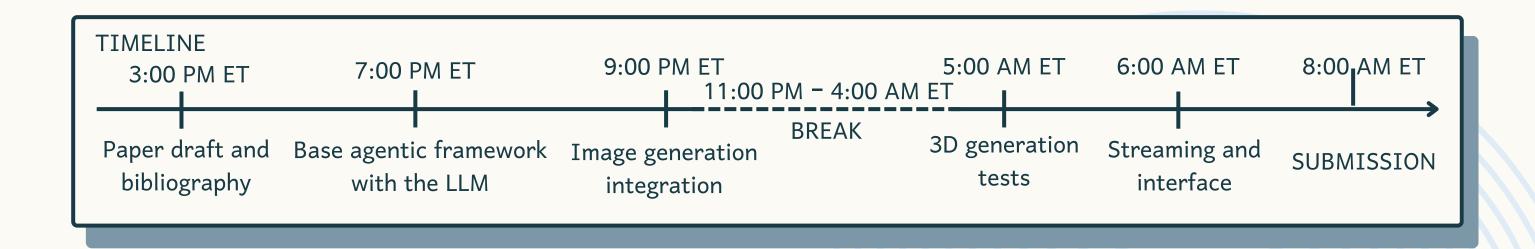
"Designing custom jewelry is a slow and manual process. Designers use tools like Rhino or Blender to create digital 3D models from scratch before they can be 3D-printed and cast into final pieces. This iterative workflow slows down creativity, limits personalization, and increases production costs."

#### **OBJECTIVE**

The goal is to provide users with a natural way to prototype and iterate, using natural language — which allow for voice extension — and live preview.

Users should prototype like they would be doing with other humans: simply, naturally, interactively. The platform should be easy to use.





## **SUCCESSES**

- A model that can call the generation tool
- The framework to scale and use larger models with a proper infrastructure
- A simple interface to stream the conversation

# CHALLENGES

- Low compute capabilities: slow model downloading and running
- Unavailable fine-tuning for the same reasons: could have improved the relevance of the agent
- Use of small models: low precision, hallucinations and inconsistent format for tool use