

# RenAIssance Topics and tracks:

## Tracks:

### 1. Generative AI for Social Good

- Applications in healthcare (diagnostics, mental health support, etc.)
- AI for education (personalized learning materials, language models for accessibility, etc.)
- Climate and sustainability solutions using GenAI.
- **Problem Statements:**
  1. **Generative AI for Inclusive UI Design:** A tool that suggests inclusive and accessible designs for websites and apps, auto-generating descriptions, layouts, and themes that work for diverse users.
  2. **Language and Skill Training for Refugees:** A platform using LLMs to create personalized lessons in language, coding, or vocational skills, empowering displaced communities to rebuild their lives.
  3. **AI-Powered Financial Literacy Coach:** A chatbot that helps users understand financial concepts, manage budgets, and make informed decisions, specifically designed for underserved populations.
  4. **Any Problem Statements:** Participants are encouraged to explore any problem statement of their choice, as long as it aligns with the theme of the hackathon.

### 2. Creative Applications of GenAI

- AI-generated art, music, and storytelling.
- Virtual content creation (game assets, interactive characters).
- Personalized media (e.g., tailored movies or ad campaigns).
- **Problem Statements:**
  1. **Melody-to-Lyrics Generator:** Develop a GenAI tool that helps musicians and lyricists create song lyrics. Users can describe the theme or mood of their music, or upload a melody/audio file, and the bot will generate customized lyrics that align with the input style and emotions.
  2. **AI-Driven Product Design and Coloring:** Create a GenAI solution that simplifies product design by allowing users to upload or select a 3D model or 2D outline of a product. The tool should provide options for dynamic coloring, texturing, and pattern application, helping designers visualize final products in creative ways.
  3. **Image-to-Story Creator:** Build a GenAI-powered storytelling tool that generates engaging stories based on the content and context of a given image. The AI

should analyze the visual elements and suggest an imaginative narrative, making it ideal for creative projects, marketing, or educational purposes.

4. **Dream Visualizer:** A tool that converts dream descriptions into surreal, AI-generated imagery or animations, allowing users to “see” their dreams come to life.
5. **Any Problem Statements:** Participants are encouraged to explore any problem statement of their choice, as long as it aligns with the theme of the hackathon.

### 3. Business and Productivity Enhancement

- AI for automating routine business tasks (emails, scheduling, etc.).
- Generative tools for code, documents, or presentations.
- Personalized customer service chatbots and assistants.
- Problem Statements:
  1. **AI-Driven Internship Trainer:** An AI-powered tool designed to assist industry experts in training interns effectively by creating personalized learning pathways, real-time feedback, and interactive resources.
  2. **AI-Driven Workforce Scheduling Assistant:** A tool that generates optimized team schedules based on task priorities, resource availability, and deadlines while considering employee preferences.
  3. **Real-Time Business Insights Generator:** A generative AI that processes live sales, marketing, or operational data and provides actionable insights, summaries, and trend predictions.
  4. **Any Problem Statements:** Participants are encouraged to explore any problem statement of their choice, as long as it aligns with the theme of the hackathon.