# **Capabilities:**

**Goal:** Accelerate the efforts, success, and growth of Austin’s AI-focused companies and organizations in AI research, development, services, sales, and other efforts leading to AI adoption and impact, including national/global AI companies and organizations with an Austin presence.

**What are the capabilities that need to be fostered for the Central Texas business, education, and overall community?**

* Identifying key AI capabilities that will drive innovation and growth.
* Establishing infrastructure and resources to support AI research and development.

**How do you identify, curate, and manage the data that can be used to augment a Generative AI Model?**

* Implementing robust data governance frameworks (eg. RAG, etc.).
* Developing methodologies for data acquisition, cleaning, and curation.

**How can you identify, set up, manage, and integrate a selected Generative AI Model?**

* Defining best practices for model selection and integration.
* Ensuring seamless integration of AI models into existing systems.

**How do you identify, define, set up, and manage techniques that limit the probability of hallucinations?**

* Implementing strategies for reducing AI model errors.
* Continuous monitoring and fine-tuning of AI models.

# **Usage:**

**Goal:** Support the success of companies and organizations in the effective adoption and usage of AI to improve innovation, efficiency, and quality of products and services.

**How can AI be used to improve innovation, efficiency, and quality of products and services opportunities for the Central Texas business, education, and overall community?**

* Exploring applications of AI to drive economic growth and improve quality of life.

**(Quick Wins) What are the tools and techniques that can be utilized by individuals, businesses, education, and community today?**

* Utilizing readily available AI tools such as Google Docs and Office 365 Copilots.
  + Communications and White Papers as Examples
  + Organizations that provide access and training

**(Tactical) What are the tools and techniques that can be utilized to integrate the required data into the AI processes?**

* Implementing data integration techniques such as Retrieval-Augmented Generation (RAG).
  + Development of White Paper outlining how to apply this capability
  + Organizations that provide services and training

**(Strategic) What are the tools and techniques that can be used to develop new technologies to advance the identified objectives?**

* Leveraging advanced AI methods for long-term innovation and technological advancement.
  + Development of White Paper outlining new AI strategies
  + Organizations that provide services and training

# **Skills:**

**Goal:** Enhance the AI knowledge, expertise, and career opportunities of the Austin workforce, and support the development of the future workforce in AI understanding, usage, and career development.

**How can we build AI skills for the Central Texas business, education, and overall community?**

* Developing training programs and educational initiatives for diverse audiences.

**How do we expand access for the community, early adopters, children to young adults, and adults?**

* Creating inclusive AI education and training programs.

**What are the new skills required to work with and alongside AI?**

* Identifying and promoting new competencies needed in the AI-driven job market.

**How do we define skills that are focused on “AI for all” / “AI for good” as an initiative or campaign?**

* Crafting campaigns that highlight the societal benefits of AI and encourage widespread skill development.

**What are the processes that need to be defined to set up career development?**

* Establishing pathways for new roles and responsibilities in the AI sector.

# **Social Impact:**

**Goal:** Demonstrate the positive social impact of AI—in business, health, energy, environment, education, safety, etc.—and address myths and fears with facts, logic, data, and education.

**How can we build capabilities, usage, and skills that will have a positive social impact?**

* Promoting initiatives that demonstrate AI's positive contributions to society.

**What are the data structures and processes that can be used to capture socially relevant data and package it for LLM training use or RAG use?**

* Implementing standardized data frameworks for training and operational use.
  + White Papers and Organization to gather and supply data.

**What are the mentorship programs that can be created?**

* Developing mentorship initiatives to guide and support AI professionals and learners. An industry and city example are listed below:
  + [**Mirror All Tech Is Human’s Mentorship Program**](https://alltechishuman.org/responsible-tech-mentorship-program)
  + [**Dallas AI’s Summer Mentor Program**](https://www.linkedin.com/posts/dallas-ai_dallasai-mentorship-artificialintelligence-activity-7208849348791603202-jvjX/?utm_source=combined_share_message&utm_medium=member_desktop)

**What are the processes to enhance and deliver professional development?**

* Creating continuous learning opportunities for AI professionals.
  + Communications to and support Professional Development Organizations

# **Responsibility:**

**Goal:** Develop and promote responsible AI design, usage, and collaboration policies, including ethical considerations, addressing bias and fairness, protecting privacy, and promoting diversity, equity, and inclusion.

**How can we create capabilities, usage, and skills that will operate in a responsible manner and do no harm?**

* Establishing ethical products, guidelines and best practices for AI use.

**What are the advocacy groups and approaches that can be defined to effect positive changes at the city, county, state, and national levels?**

* Forming advocacy groups to promote responsible AI policies.
  + Form Groups and approaches

**What are the higher education efforts required to foster this environment of safety?**

* Collaborating with academic institutions to ensure AI education includes ethics and responsibility.
  + Develop relationships with education

**Are there techniques and technologies that can be used with Generative AI that would implement the right level of oversight and responsible behavior?**

* Utilizing technologies that ensure AI transparency, accountability, and ethical compliance.
  + Development of White Papers and Organizations that develop and utilize new tools and techniques.

**Next Steps:**

* Review and refine these frameworks and questions to ensure alignment with the goals of the Austin AI Alliance.
* Engage with stakeholders to gather feedback and make necessary adjustments.
* Implement the defined processes and begin executing AI projects with a focus on these objectives.
* Review IP Challenges once ideas are generated are properly handled.
* Review current projects that have been submitted and slot them under these different objectives. (Do we want to slot them or have the project declare it? Question for Board.)