

Fundamental Components of an Organization's Tech Stack

A comprehensive tech stack is critical in building and sustaining generative AI systems

MACHINE LEARNING FRAMEWORKS

- Frameworks (**eg. TensorFlow**) can offer tools, APIs, and pre-built models for image, text, and music generation, allowing customization for accuracy and quality

PROGRAMMING LANGUAGES

- Languages (**eg. Python, R, and Julia**) that are simple yet widely used are critical to building and sustaining generative AI models and systems

CLOUD INFRASTRUCTURE

- Cloud infrastructures (**eg. AWS, GCP, and Azure**) have tremendous computing power efficiency and storage, while providing scalability and flexibility for virtual machines, storage, and machine learning platforms

DATA PROCESSING TOOLS

- Data preprocessing and cleaning tools (**eg. Apache Spark and Apache Hadoop**) can be used to parse through large amounts of data efficiently, providing data visualization and exploration to identify patterns