

The slide features a light gray background with several decorative elements. On the left, there are four hexagons: a large light blue one, a small dark green one above it, a large medium green one to the right, and a small dark green one below the large green one. On the right side, there are abstract, overlapping geometric shapes in various shades of blue, ranging from light to dark. The text 'Pragathy.M.R' is positioned in the upper right area, and 'Final Project' is below it.

Pragathy.M.R

Final Project

# Project Title:

# "TextGen: AI-Powered Text Generation System"

# AGENDA

- ◆ Introduction
- ◆ Problem Statement
- ◆ Project Overview
- ◆ Solution and Value Proposition
- ◆ The Wow in Our Solution
- ◆ Modelling
- ◆ Results
- ◆ Conclusion



# PROBLEM STATEMENT

- ◆ Text generation tasks, such as creating short stories, poems, or news articles, often require substantial time and creativity.
- ◆ Human-generated content can be subjective, and it may not always meet the desired quality standards.
- ◆ There is a need for an automated text generation system that can produce realistic and high-quality content across various genres.



# PROJECT OVERVIEW



- ◆ Our project aims to develop an AI-powered text generation system capable of creating realistic text, including short stories, poems, and news articles.
- ◆ Leveraging state-of-the-art machine learning techniques, our system will analyze and learn from a diverse dataset of text to generate coherent and contextually appropriate content.
- ◆ Users will be able to specify the genre, style, and length of the text they want to generate, and the system will produce tailored content accordingly.



# Project:

- ◆ Our project involves collecting and preprocessing a large dataset of text spanning different genres, including literature, poetry, and news articles.
- ◆ We then build and train a deep learning model, such as a recurrent neural network (RNN) or transformer-based architecture, on this dataset to learn the patterns and structures of natural language.
- ◆ Once trained, the model can generate text based on given prompts or specifications provided by the user.

# WHO ARE THE END USERS?

- ◆ Writers, journalists, and content creators seeking inspiration or assistance in generating text for their projects.
- ◆ Educators and students looking for tools to aid in creative writing exercises or language learning activities.
- ◆ Businesses in need of automated content generation for marketing campaigns, chatbots, or customer engagement.

# YOUR SOLUTION AND ITS VALUE PROPOSITION



- ◆ Our solution, TextGen, offers a user-friendly interface where users can easily input their preferences and receive generated text tailored to their needs.
- ◆ By harnessing the power of AI and machine learning, TextGen accelerates the content creation process, saving time and effort for users.
- ◆ The system ensures high-quality output by learning from a diverse range of texts and continuously improving its generation capabilities over time.
- ◆ TextGen empowers users to explore new creative avenues, overcome writer's block, and produce engaging content across various domains.

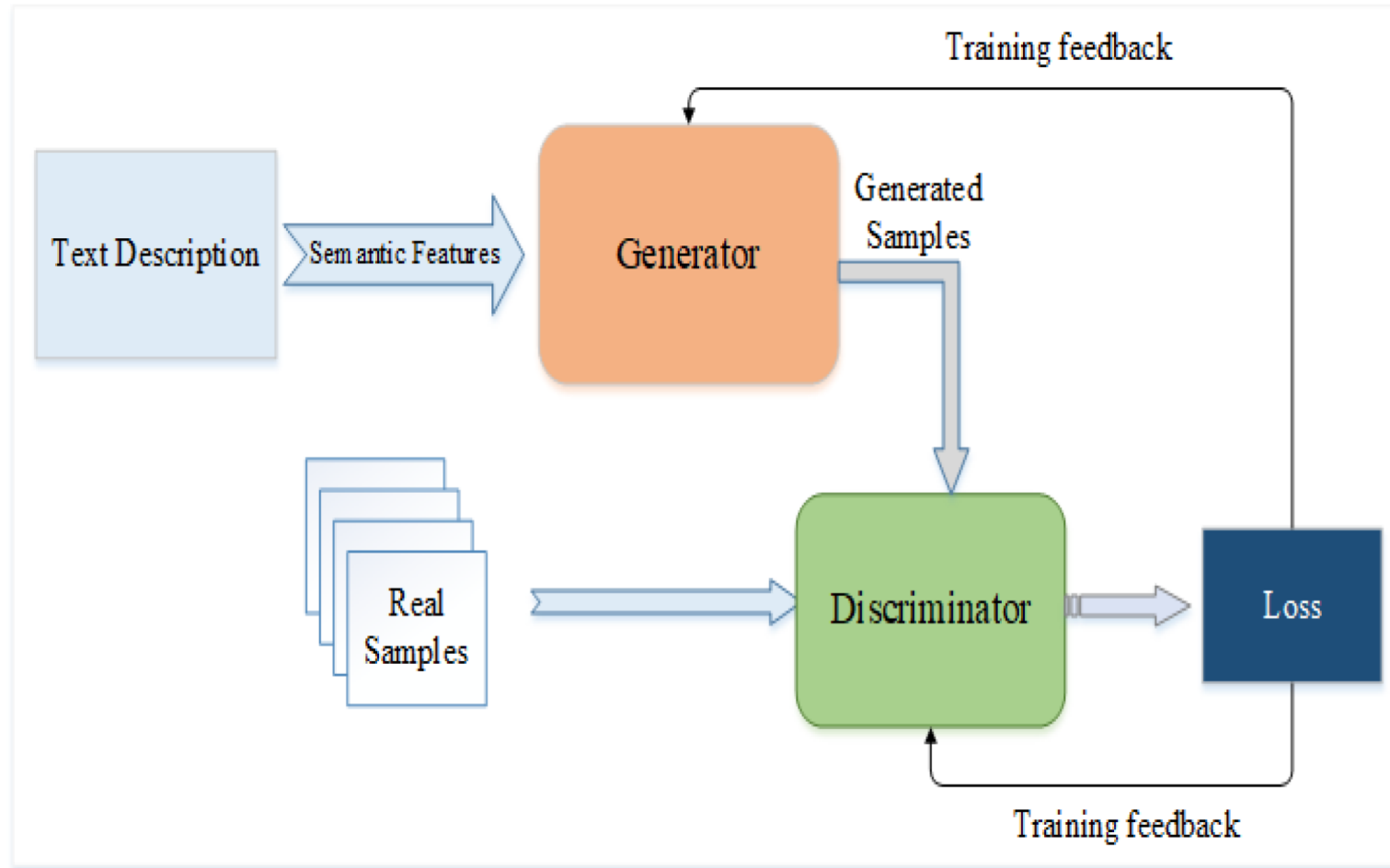


# THE WOW IN YOUR SOLUTION

- ◆ TextGen employs cutting-edge natural language processing (NLP) techniques to generate text that closely resembles human-authored content.
- ◆ The system can adapt to different writing styles, tones, and genres, providing users with versatile and customizable text generation capabilities.
- ◆ With its seamless integration into existing workflows and intuitive interface, TextGen revolutionizes the way content is created and consumed.



# MODELLING



# RESULTS

- ♦ TextGen achieves impressive results in generating realistic text across various genres, as demonstrated by qualitative evaluation and user feedback.
- ♦ Users report high satisfaction with the quality and relevance of the generated content, indicating the system's effectiveness in meeting their needs.
- ♦ Quantitative metrics, such as perplexity scores or BLEU scores, can also be used to assess the performance of the model and compare it with baseline approaches

[Demo Link](#)