

The slide features a light gray background with several hexagonal shapes: a light blue one, a dark green one, and a large green one in the upper left; and a single green one in the lower left. On the right, there is a large, abstract graphic composed of overlapping triangles in various shades of blue. The text is positioned to the right of the central hexagons.

# Srikanth B

## Final Project

# PROJECT TITLE

**"Image Descriptor:  
Enhancing Image Understanding with AI"**

# **AGENDA**

- **Introduction**
- **Problem Statement**
- **Project Overview**
- **Solution and Value Proposition**
- **Modelling Approach**
- **Results and Impact**
- **Conclusion**



# PROBLEM STATEMENT

- Difficulty in comprehending images without human intervention.
- Lack of efficient tools for extracting meaningful information from images.
- Need for an automated solution to describe images accurately.



# PROJECT OVERVIEW

- Introduce the Image Descriptor project.
- Briefly explain the technologies and frameworks used (e.g., Google Generative AI, Express.js, Multer).
- Highlight the aim of the project: To develop a system capable of generating textual descriptions for uploaded images.



# WHO ARE THE END USERS?



- Content creators
- Social media managers
- E-commerce businesses
- Researchers
- Anyone requiring image understanding and analysis

# YOUR SOLUTION AND ITS VALUE PROPOSITION



- **Describe the Image Descriptor system:**
  1. User-friendly web interface for uploading images and entering questions.
  2. Integration with Google Generative AI for image description generation.
- **Value proposition:**
  1. Provides accurate textual descriptions for images.
  2. Saves time and effort in manually annotating images.
  3. Enhances accessibility for visually impaired individuals.
  4. Improves search engine optimization (SEO) for images.

# THE WOW IN YOUR SOLUTION

- **Showcase the unique features and advantages of the Image Descriptor system:**


1. Real-time image description generation.
2. Seamless integration with existing applications.
3. Scalability to handle large volumes of image data.
4. Ability to customize prompts for generating descriptions.





# MODELLING



- **Explain the modelling approach:**
    1. Utilization of Google Generative AI's Gem-Pro Vision model.
    2. Processing of image and text inputs for content generation.
    3. Handling of multi-modal data for accurate descriptions.
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# RESULTS

- **Present the outcomes and performance metrics:**

1. Accuracy of generated descriptions compared to ground truth.
2. Speed of processing and response time.
3. User feedback and satisfaction ratings.
4. Potential applications and future improvements.