

The slide features a light gray background with several hexagonal shapes: a large light blue hexagon, a small dark green hexagon, a large green hexagon, and a small green hexagon. On the right side, there is a complex abstract design composed of overlapping triangles in various shades of blue. The text 'Anusha K' is in black, and 'Final Project' is in green.

Anusha K


Final Project

Develop an educational resource on deep learning basics and CNN



AGENDA



- **PROBLEM STATEMENT**
 - **PROJECT OVERVIEW**
 - **WHO ARE THE END USERS?**
 - **YOUR SOLUTION AND ITS VALUE PROPOSITION**
 - **THE WOW IN YOUR SOLUTION**
 - **MODELLING**
 - **RESULTS**
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PROBLEM STATEMENT

Develop an educational resource on deep learning basics and CNNs. Provide clear explanations and practical examples to aid beginners. Focus on building an MNIST classifier for hands-on learning.



PROJECT OVERVIEW

Create an educational resource on deep learning basics and CNNs, offering clear explanations and practical examples for beginners. Focus on building a digit classifier using the MNIST dataset for hands-on learning.

Overview:

- Introduction to Deep Learning
- Understanding Convolutional neural network (CNN)
- MNIST Datasets
- Building an MNIST Classifier
- Practical Examples and hands-on exercise
- Advanced Topics and Extensions
- Interactive learning Resource

WHO ARE THE END USERS?

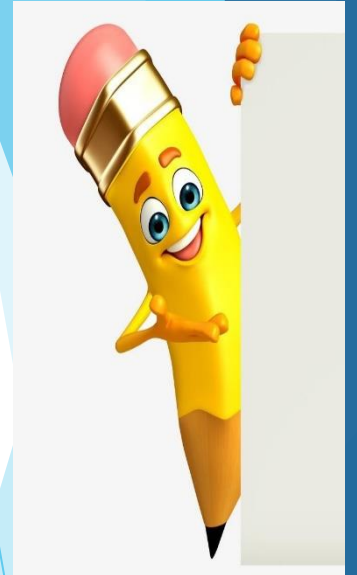
- ❖ **Beginners interested in deep learning and CNNs**
- ❖ **Students studying machine learning or computer science**
- ❖ **Enthusiasts exploring artificial intelligence**
- ❖ **Professionals seeking to expand their skills in deep learning and C**



YOUR SOLUTION AND ITS VALUE PROPOSITION



- 1. The resource will provide clear explanations of deep learning basics and CNNs.**
- 2. Numerous practical examples will be included, covering real-world scenarios.**
- 3. Hands-on learning will be emphasized through building an MNIST classifier.**
- 4. Step-by-step instructions and code snippets will be provided.**
- 5. Visual aids will enhance the learning experience.**
- 6. The resource is designed for beginners with minimal background knowledge.**
- 7. The project covers theoretical concepts and practical implementation.**
- 8. It provides a comprehensive learning experience.**
- 9. Accessibility is a key component, with the resource available online.**
- 10. The project aims to empower beginners and provide a solid foundation for further exploration.**



THE WOW IN YOUR SOLUTION

- ❖ **Improved Understanding:** Clear explanations and practical examples deepen understanding of deep learning basics and CNNs.
- ❖ **Practical Application:** Building an MNIST classifier provides hands-on experience and real-world application.
- ❖ **Enhanced Skills:** Step-by-step instructions and code snippets help learners become proficient in implementing deep learning models, specifically CNNs.
- ❖ **Confidence Building:** Beginner-friendly approach and comprehensive learning experience build confidence in learners.
- ❖ **Accessible Learning:** Online availability ensures accessibility for learners globally.
- ❖ **Career Advancement:** Knowledge of deep learning and CNNs can enhance career prospects.
- ❖ **Personal Growth:** In-depth learning fosters personal growth and intellectual development.
- ❖ **Community Engagement:** Encourages collaboration, knowledge-sharing, and problem-solving among learners.
- ❖ **Empowerment:** Provides individuals with the tools to explore their interests and potential in AI and machine learning.
- ❖ **Long-term Impact:** Knowledge gained forms a foundation for further advancements and innovative applications in deep learning.



MODELLING

Certainly! Here are the steps involved in creating a wireframe for an educational resource on deep learning basics and CNNs:

- 1. Identify main topics and sections.**
- 2. Decide on the layout and basic elements.**
- 3. Determine placement and size of content elements.**
- 4. Use simple shapes to represent components.**
- 5. Organize elements into a logical hierarchy.**
- 6. Consider user experience and navigation.**
- 7. Refine and adjust based on feedback.**

RESULTS

- ✓ **Informative and interactive educational resource.**
- ✓ **Clear explanations of deep learning and CNNs for beginners.**
- ✓ **Step-by-step tutorials and practical examples.**
- ✓ **Focus on building an MNIST classifier.**
- ✓ **Hands-on learning activities.**
- ✓ **Use of popular deep learning frameworks like TensorFlow or PyTorch.**
- ✓ **User-friendly and engaging learning experience.**
- ✓ **Visual aids, interactive quizzes, and practical exercises.**
- ✓ **Suitable for beginners with no prior experience.**
- ✓ **Empowers learners to develop skills in deep learning and CNNs.**

