

Hope to Skills

Lecture#01

Instructor: Irfan Malik, Dr. Sheraz Naseer

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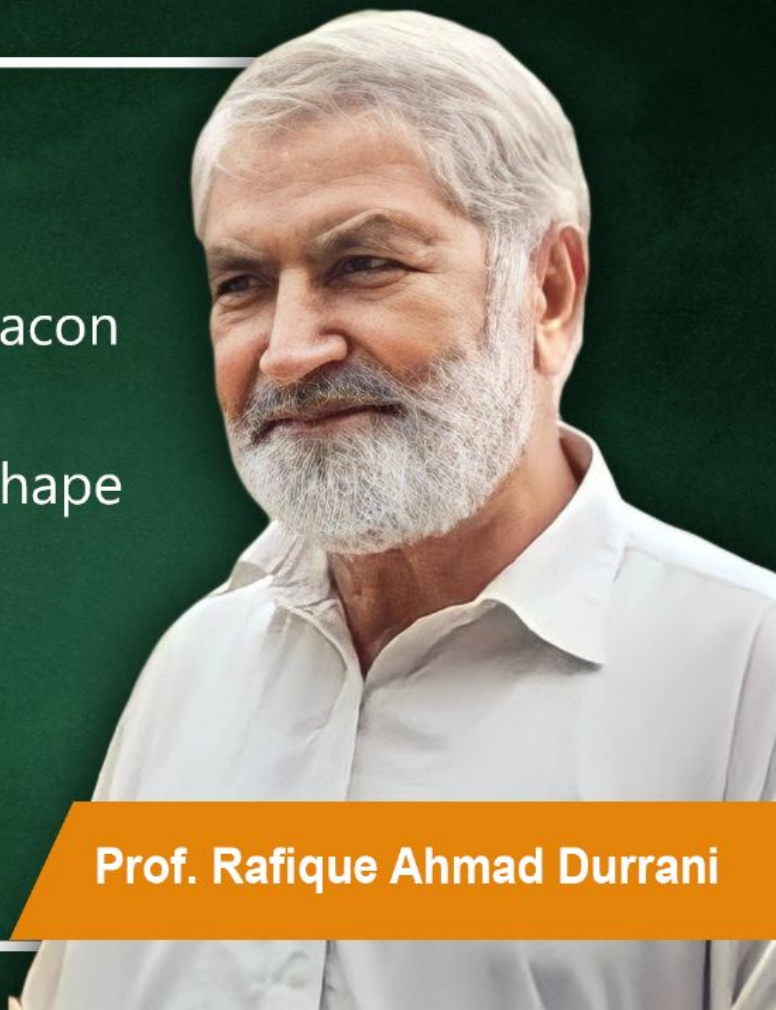
Dedicated to my late teacher, a beacon
of knowledge.

Your guidance shaped me; now I shape
others through a free course.

YOUR LEGACY LIVES ON!

#LightingThePath

Prof. Rafique Ahmad Durrani



Lecture#01

Our Goal for This Course

1. Skill Development
2. Hands-on learning
3. Problem-solving and critical thinking
4. Practical experience and portfolio building
5. Effective self-presentation
6. Fostering a culture of knowledge-sharing

Our Expectations from Students

1. Active participation in practical exercises and assignments
2. Practical experience and portfolio building
3. Sharing knowledge and teaching new batches

Working Plan

- **Lecture Delivery:** Comprehensive lectures on various topics
- **Through Evaluations:** Regular evaluations after each lecture
- **Hands-on Practice:** Hands-on practice for each module
- **Projects and Assignments:** Real-world projects and assignments
- **Small Project Completion:** Small projects upon completing each module
- **Guidance and Support:** Ongoing guidance and support throughout the course

Work Ethics

1. Be punctual and respect others' time.
2. Maintain professionalism in all interactions.
3. Take responsibility for your work and actions.
4. Communicate effectively and respectfully.
5. Collaborate and contribute positively in teams.
6. Manage your time efficiently and meet deadlines.
7. Be accountable for your assignments.
8. Foster a positive and supportive work environment.

Practical sessions

- There will be hands-on practise session during each lecture.
- You will be given task to solve in order to understand the concept
- The purpose is to make you learn the topic so feel free to ask questions

Evaluations

- Evaluations may Include
 - Quizzes
 - Assignments
 - Projects
 - Presentations
 - To focus on the professional grooming.
- The Evaluations Will be uploaded on the Google Classroom.
- It is compulsory to meet the Deadlines for each evaluation.

What is Artificial Intelligence?

- Artificial Intelligence (AI) refers to the ability of machines to perform tasks that would normally require human intelligence
- AI is used in many everyday technologies

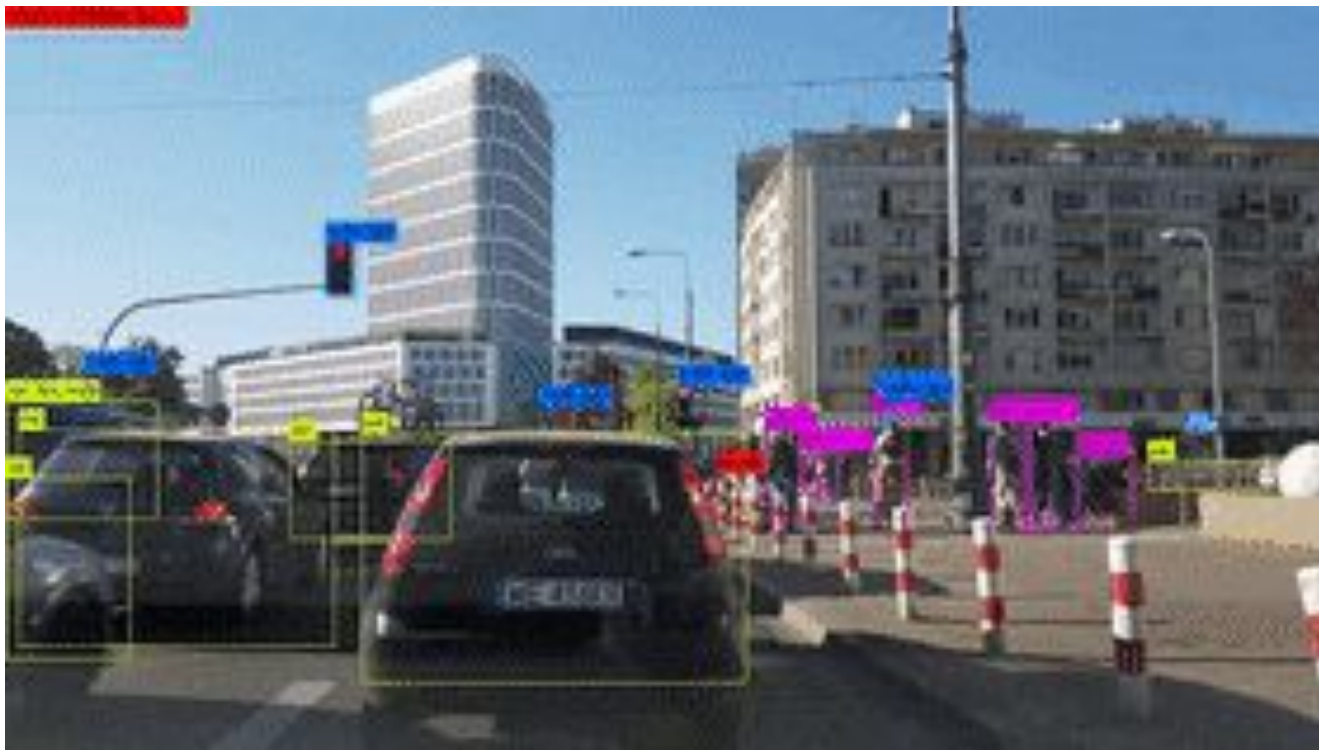
What is future going to be like?

1. Increased efficiency and automation
2. Improved healthcare
3. Smarter cities
4. Enhanced customer experiences
5. Increased access to education

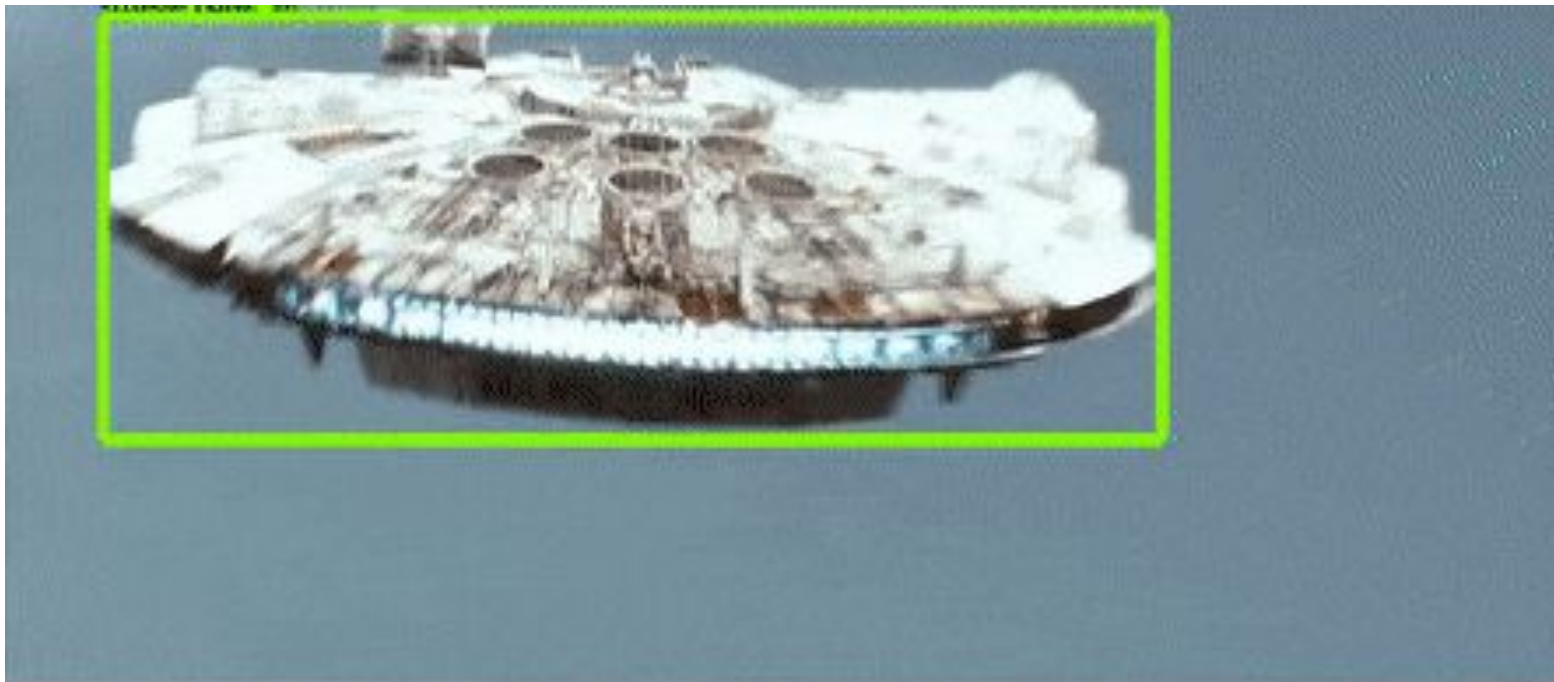
Agenda

- 1- AI concepts and applications
- 2- Overview of Previous discussion
- 3- Unsupervised Learning
- 4- Reinforcement Learning
- 5- Deep Learning
- 6- Relationship between AI, ML and DL
- 7- Questions and Answers

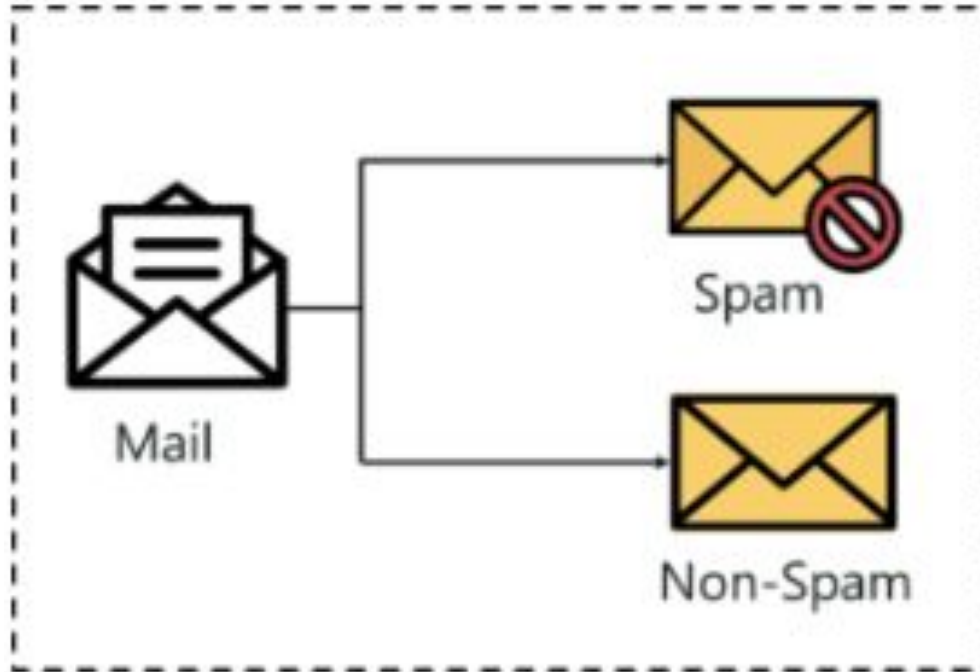
Object detection



Object detection



Classification



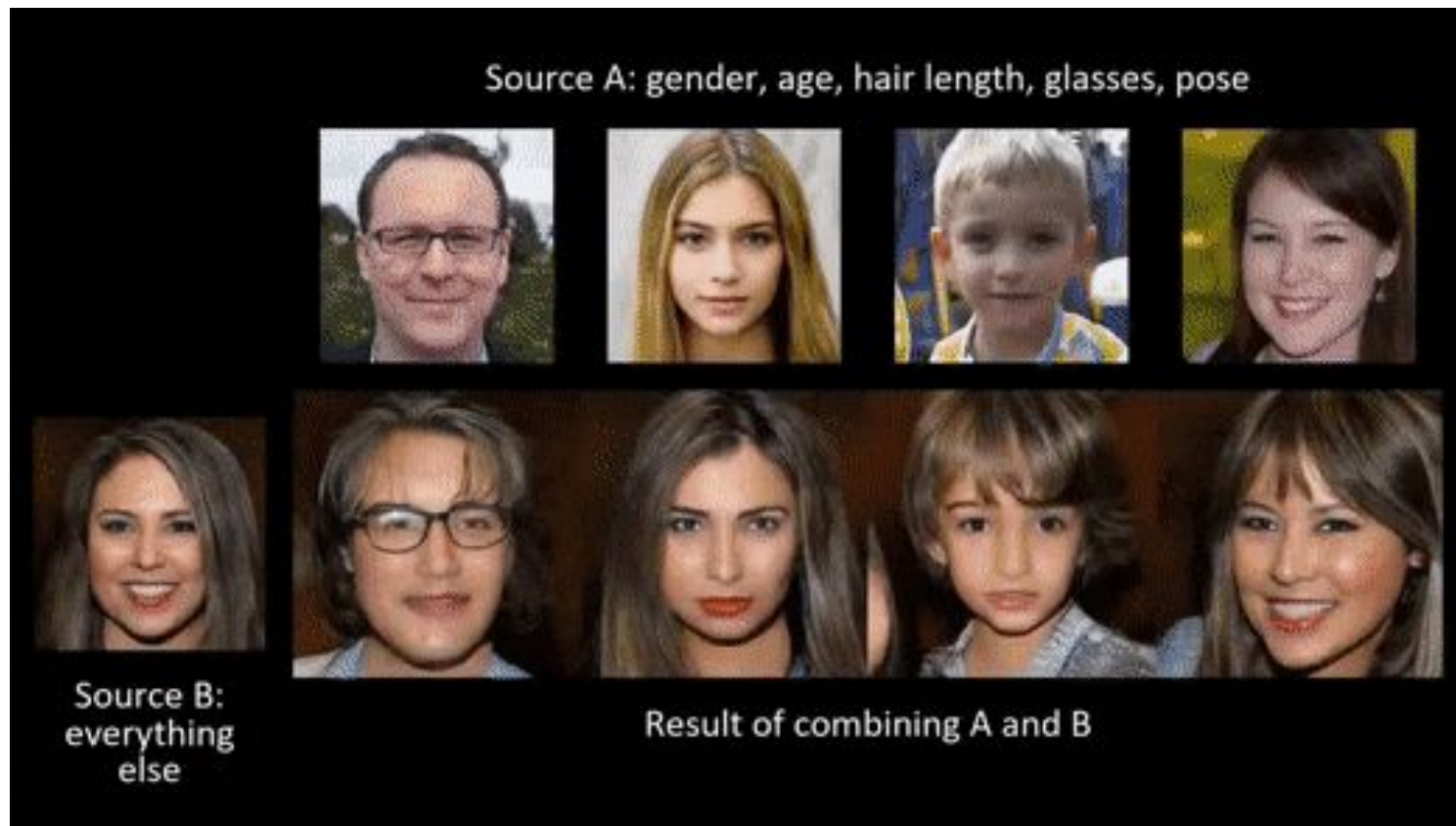
Segmentation



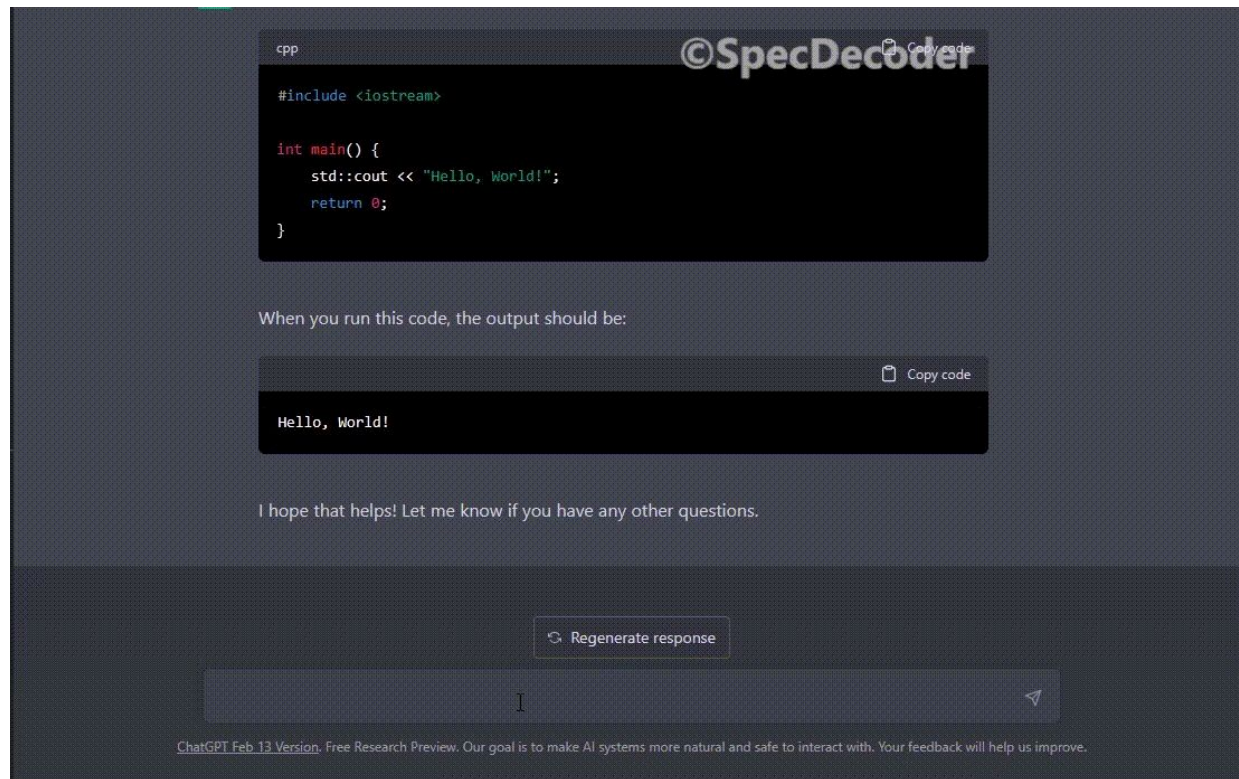
Segmentation



Generative Models



Chatgpt



Stable-diffusion

