AScript

Hello guys and thanks for coming to the first AI Club Artificial Intelligence meeting

Wow such a good turnout.

Okay let’s get started

we think about AI as a branch of computer science that allows computers to make predictions and decisions to solve problems. When you hear that AI is being used in a product, that usually refers to an area of AI called machine learning. Machine learning (ML) is an approach to teach computers how to make decisions and predictions, by giving them the ability to learn from data.

Face recognition

Facial recognition is a biometric software application capable of uniquely identifying or verifying a person by comparing and analyzing patterns based on the person's facial contours.

The software uses deep learning algorithms to compare a [live capture](https://searchsecurity.techtarget.com/definition/live-capture) or digital image to the stored faceprint in order to verify an individual's identity.

Machine Learning

Machine Learning is the science of getting computers to learn and act like humans do, and improve their learning over time in autonomous fashion, by feeding them data and information in the form of observations and real-world interactions.

Object detection

Object detection involves detecting instances of objects from a class in an image

* This is just a bunch of words that you guys don’t understand but u will get to know

Start ----------------------------------

Slide 1

* Hello guys and thanks for coming to the first AI Club Artificial Intelligence meeting
* Wow such a good turnout.
* Okay let’s get started

Slide 2

* Hi guys I am the Kunal and the President of the club
* And I am Srihith and the VP of the club

Slide 3

* Okay so the big overview
* What is AI
* Just as a textbook definition AI is
  + A branch of computer science that allows computers to make predictions and decisions to solve problems
* So, it is basically teaching the computer to solve problems
* Different problems could range from
  + Detecting what in a picture
  + Translating handwriting to text
* Some real-life examples are
  + Google or Siri
    - They have voice recognition which is personalized to your voice to understand what you are saying
  + Tesla for example
    - They use many sensors like ultrasonic, radar, lidar, camera, and GPS and with that data, it understands what is around the car and drives accordingly
  + In our own school
    - we use object detection to track people
* As a club we were established last year but AI has been here since 1955. Yet it has only recently, in the past 5 years started getting useful.

Slide 4

* So, you guys heard me say all these words like machine learning and object detection.
  + Machine learning is basically getting computers to learn over time by feeding the computer data and documented observations
  + Basically, learning for millions and billions of documented events

Slide 5

* What do we do in this club?
* We start with learn
  + We have guest speakers that come and talk about what ai is and its different field
  + They will also show real life examples that they might be working in their office
  + Next we would decide on a problem that could be solved with AI.
    - For example, automatous vehicles (we will talk later)
  + Next we would implement the solution
    - We would build the necessary device, program the device and then test and try out different way
  + Finally, we would publish or present our project

Slide 6

* Field of AI
  + Face Recognition
    - Facial recognition is a biometric software application capable of uniquely identifying or verifying a person by comparing and analyzing patterns based on the person's facial contours.
    - Pretty much just recognize who face is in the camera frame
  + Object Detection
    - Track and detect what objects are shown and track their movement throughout the video.
    - Figure out the different object that is in the frame
      * Object could be anything from
        + Person
        + Banana
        + Bicycle
        + Textbook
        + Phone
        + Etc.
  + Natural Language Processing – NLP
    - Basically, converting handwriting and voice to text
  + Line detection is tracking the lines or edges of anything in a picture
    - You see this in snapchat filters

Slide 7

* Definition \*\*

Slide 8

* Definition \*\*

Slide 9

* \*\* Just read out what is on the ppt
* 4 things
* **Personal Computer**
  + Able to install software on it and be able to bring it to school every meeting.
  + Work with someone else
* **Coming and working at the meetings**
  + Must be able to come to all meetings. If you can’t come to meetings talk to us in advance
  + We understand most of you are in robotics club so you guys must come to the meetings but if you can’t come nearing competition day then tell us in advance
* OSP
  + 15 dollars required to buy supplies and sometimes food
* Follow us on Instagram for updates
  + @aiclub.ahs

Slide 10 --\*\* Keep this time less \*\*

* This is placing our club is in the overall life
  + Starts with basic coding
  + Goes to programming real life projects
  + High level projects – internships
  + Jobs

Slide 11

* Agenda
* \*\* say everything on slide
* \*\* keep this short because it is sort of the repetition

Slide 12

* Since AI is a very big field there and many many many projects that you could work on and just a few examples
  + Automatous vehicle driving
  + Face tracking drone
  + Facial recognition for atendence in classrooms
  + Manipulating sound
  + NLP Voice to Text personalized
  + Detect cancer from x rays

Slide 13

* This is one project we could work on where we would build a small robot and with some ultrasonic, radar, and camera sensors and a Nvidia Jetson GPU we could add object detection to it and make it automatous vehicles

Slide 14

* Cafeteria was our last year project and it was a facial recognition and object detection program/device which automatically detects what is on your plate and detects it from its account that is linked to your face

Slide 15

* So, it starts with object detection for the food and this is an example

Slide 16

* This is the full process and explain the entire way\*\*

Slide 17

* This is the data output

Slide 18

* Okay so now has everyone signed up with the form and here are all our social media contacts

Slide 19

* Thanks for coming
* Technology tomorrow, today