

Warp n Weft of AI

Eligibility: IX-XII

What to expect:

- Introduction of concepts in AI to young enthusiasts, and guidance to succeed from beginner to an amateur level.
- Statistical learning
 - Regressions
 - Error Analysis (R-squared, RMS, etc.)
- Neural networks
 - Gradient Descent
 - Backpropagation
 - Loss Functions and Optimizer Basics
 - Error Analysis (Gauss Error Function)
 - Dense Layers
- Hands-on work throughout the course. Yellow Submarine and Python will be used in display for the same.

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Certification/Reward

In a suitable point in time during the course, the participants will be given the task of writing a 'Review Paper' on Artificial Intelligence under the bounds of what has been taught and further research around the same topics. A detailed help sheet, covering how to do the same (with suggested resources) will be provided at the same time. Website: shows flow of execution of plan

On the basis of the submitted Review Paper, a total of 3 students (per grade) will be awarded with "*Excellence in Structural Basics and Growth Analysis of Artificial Intelligence*".

Durations and enrolment details

In a run of 3 days with 2 batches per day, the course will be completed and submitted Review Papers will be evaluated for drafting the certificates. A rate of 2 hours per day will be followed and the organizers will swap their places at the first hour, between the two running batches.

According to density of participants, it will be decided if the two batches are split between the same grade or different grades.

("grade" refers to the school year you're in)

Note:

- Last day to register is 15th Jan
- Event is on 17th, 18th and 19th Jan

Event Headed by:

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