AI/ML for Students

An AI/ML course for students up to grade 12

What the course will cover

- Python programming
- AI/ML concepts
- Mathematics and Statistics techniques used in ML
- Selected ML platforms
- Python core packages for ML
- Data processing for ML
- Data visualizations
- Building and running standard AI/ML models

What to expect at the end of the course

- The student will be able to
  - Write Python programs.
  - Download and run models from popular web resources like GitHub, ML Contests, and Kaggle, among others.
  - Download models and retrain them.
  - Identify categories of problems and apply the right models to solve them.
  - Create a solution pipeline and implement it.
  - Understand how AI/ML works.

Limitations of the course

- As it is a short-duration course, it won't cover all AI/ML concepts in detail.

- Though we will make sure that the students are able to understand, code, and run AI/ML models, the in-depth coverage of them will be beyond the scope of this course.

- Designed for students, the focus will remain on the mathematics behind making AI/ML work. Programming, though covered fully, won't be our prime objective.

Mathematics of AI/ML

- Linear Algebra

- Analytic Geometry

- Matrices

- Vectors

- Probability

- Statistics and Distributions

- Continuous Optimization

- Linear Regression

- Principal Component Analysis

- Density Estimation

- Support Vector Machines

Machine Learning Techniques/Models

- scikit-learn

- TensorFlow

- PyTorch

- Classification models

- Regression models

- Deep learning models

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You can also visit our website at http://www.xcelvations.com/ for more information.