

RoboSmart Labs

REDEFINING ROBOTICS EDUCATION

25 Hour Course - Option 6

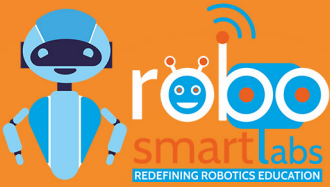
Course code: RSL0L25R02



ADVANCED CODING (BLOCKLY – C SHARP – PYTHON – ANDROID STUDIO – HTML CSS) / AI / ML / AR-VR / ADVANCED WEB DEVELOPMENT
(ROBUST - GOOD FOR GRADE 9-12)



**INTERACTIVE LIVE
COURSE SERIES**



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VIRTUAL REALITY AND AUGMENTED REALITY (BASIC)

Learning Outcome

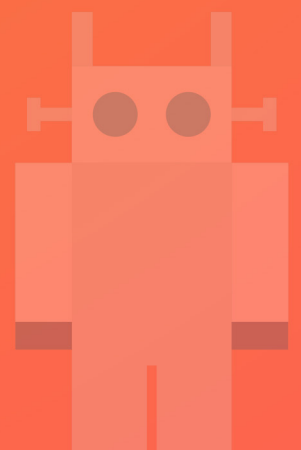
Getting familiar with VR and VR software, Develop 3D creation skills, Working with variables, Using lists, Using functions, Screen templates, Camera movements, The snapping tool, Scene filters, The hierarchy, Building blocks, Sphere textures, Floor image, Lock feature, Duplicate, attach feature, Uploading videos, Publish VR App, Desktop shortcuts, Editor, Navigation, Building, Co locks

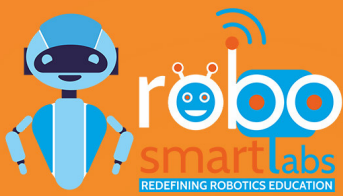
Projects

Play mode, Gyro mode, VR (Virtual Reality) mode, AR (Augmented Reality) mode, Register, Create, Explore, 360° tours, Virtual exhibitions, Storytelling lesson, Creation Planning, Create virtual scenes, Build new constructions, Add external files

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www.robosmartlabs.com





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AI AND ML PROGRAMMING (ADVANCE)

Learning Outcome

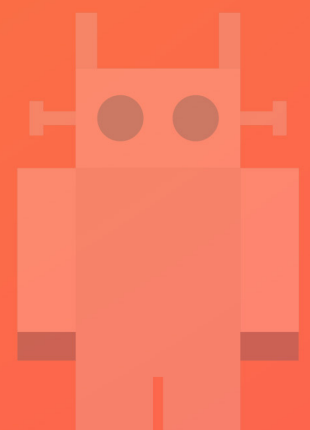
What is machine learning?, Why machine learning?, When should you use machine learning?, Types of Systems of Machine Learning, Supervised and unsupervised learning, Reinforcement Learning, Instance based learning, Model-based learning, Measures of Performance, Confusion Matrix, Recall Trade-off ROC, Multi-class Classification, Training a Random Forest Classifier, Training Model, Linear Regression, Computational Complexity, Types of Descent, Polynomial Regression, Learning Curves, Regularized Linear Models, Ridge & Lasso Regression

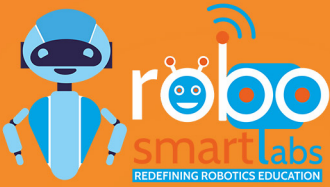
Projects

3 Basic using the above features

4 Advance ML & AL using the above features

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ADVANCE - WEB DEVELOPMENT (HTML , CSS)

Learning Outcome

Basics of CSS, Applying CSS Code, Syntax of a CSS rule, Selecting an Element, Selecting Classes and IDs, More Selectors, Case Insensitivity, Order of Precedence, Display Inconsistency, Comments, CSS Box Model, Width and Height Properties, Overflow Property, Padding and Margin Properties, Border Properties, Border Shorthand Positioning and Floating, Floating, Display and Visibility, Background, Background Color image repeat attachment position, Text and Font Properties, Lists, Links and Navigation Bars, CSS Lists, Links, Navigation Bars, Tables, Border, Padding and Margin

Projects

5 Basic Websites using the above features
8 Advance websites using the above features

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