

# Certified Data Science Course

Your Gateway to a Successful Data  
PROFESSIONAL Career

Presented by  
**Code2Career**

Headquartered in  
**Baner, Pune**





# About Code2Career

- **An Ed-Tech platform focused on Data Science, Analytics & Career Skills**
- **Providing online learning for students and working professionals**
- **Trained by industry experts and IIT alumni**
- **Offers real-world projects, mock interviews & placement support**
- **Curriculum designed to match current industry needs**
- **Helped learners transition into careers in tech, data & analytics**
- **Actively building connections with hiring partners and startups**



# Our Accreditations & Partners



**TRANSCEND DISCOVERIES**



**Genzailabs pvt ltd**



**InMed Prognostics pvt ltd**



**Impressa Solutions**



**ValueTime Online  
Services Pvt Ltd.**



**SAI MEDI-EQUIPMENTS  
PRIVATE LIMITED**



# Why Data Science?

- Drives data-driven decision making in every industry
- Powers innovations in AI, automation, and tech products
- High demand across domains: healthcare, finance, retail, and more
- Ranked among the top 3 fastest-growing careers globally
- Offers one of the highest-paying tech roles
- Solves real-world problems using data insights
- Ideal for career switchers from any background
- Enables businesses to understand trends, behavior & forecasting
- Combines coding, math, business, and creativity
- Continuously evolving with endless learning opportunities





# Course Curriculum

## Module 1: PYTHON

- Introduction
- Variables
- Python Basic Data types
- Lists String Slicing, Indexing
- Operator
- IF statements Loops
- Dictionaries
- Tuples
- Functions
  - I) Functions arguments
  - II) Lambda Function
  - III) Built in function
- Modules, Packages anaconda
- Array





## Module 2: PYTHON PACKAGES

- Pandas Numpy
- Sci-kit Learn
- Mat-plot library Hands-on-Exercise: Installing jupyter notebook for windows, Linux and Installing numpy, pandas and matplotlib

## Module 3: IMPORTING DATA

- Reading CSV files
- Saving in Python data
- Loading Python data objects
- Writing data to CSV file





## Module 4 : MACHINE LEARNING SUPERVISED LEARNING

### Linear Regression

- Linear Equation
- Slope o Intercept

### Logistic Regression

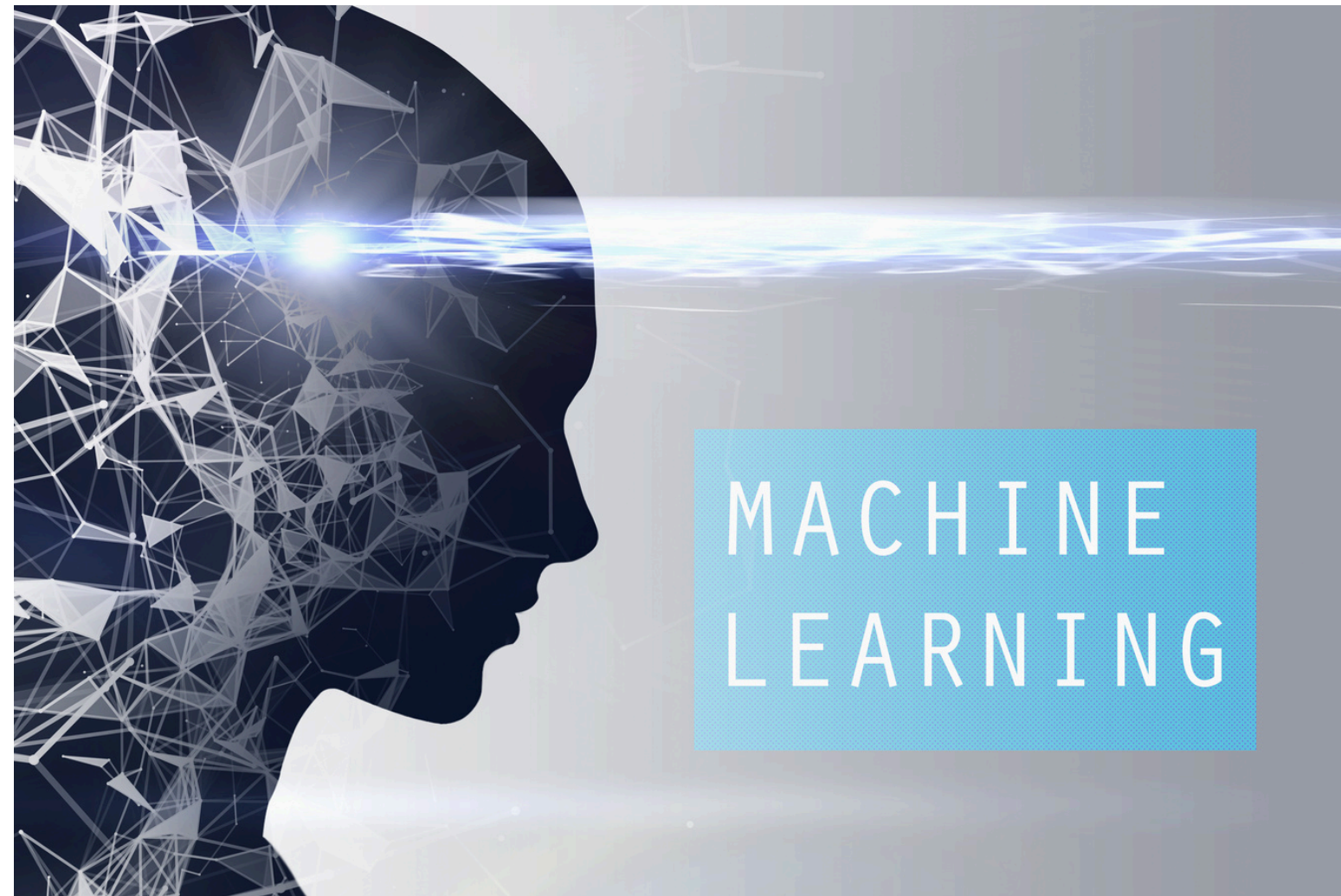
- ODDS ratio Probability of success
- Probability of Failure Bias Variance Tradeoff ROC Curve
- Bias Variance Tradeoff

### RIDGE LASSO

- We have reviewed the main ways to approach the problem of modeling data using simple and definite







## MODULE 5 : MACHINE LEARNING UNSUPERVISED LEARNING

- K-Means
- Hierarchical Clustering

### **SVM**

- Support Vectors
- Hyperplanes
- 2-D Case
- Linear Hyperplane

### **SVM KERNAL**

- Linear
- Radial
- Ploynomial



## MODULE 6 : OTHER MACHINE LEARNING ALGORITHMS

- K-Nearest neighbour
- Naïve Bayes Classifier
- Decision Tree -CART
- Decision Tree –C50
- Random forest
- Adaboosts
- XGBoots



## Module 7 : STATISTICS IN MACHINE LEARNING

- Mean o Median
- Mode
- Skewness
- Normal Distribution

## Module 8 : STATISTICS IN MACHINE LEARNING

- What dose it mean by probability?
- Types of Probability

## Module 9 : STANDARD DEVIATION

- Data deviation & distribution
- Variance





## Module 10 : BIAS VARIANCE TRADE-OFF

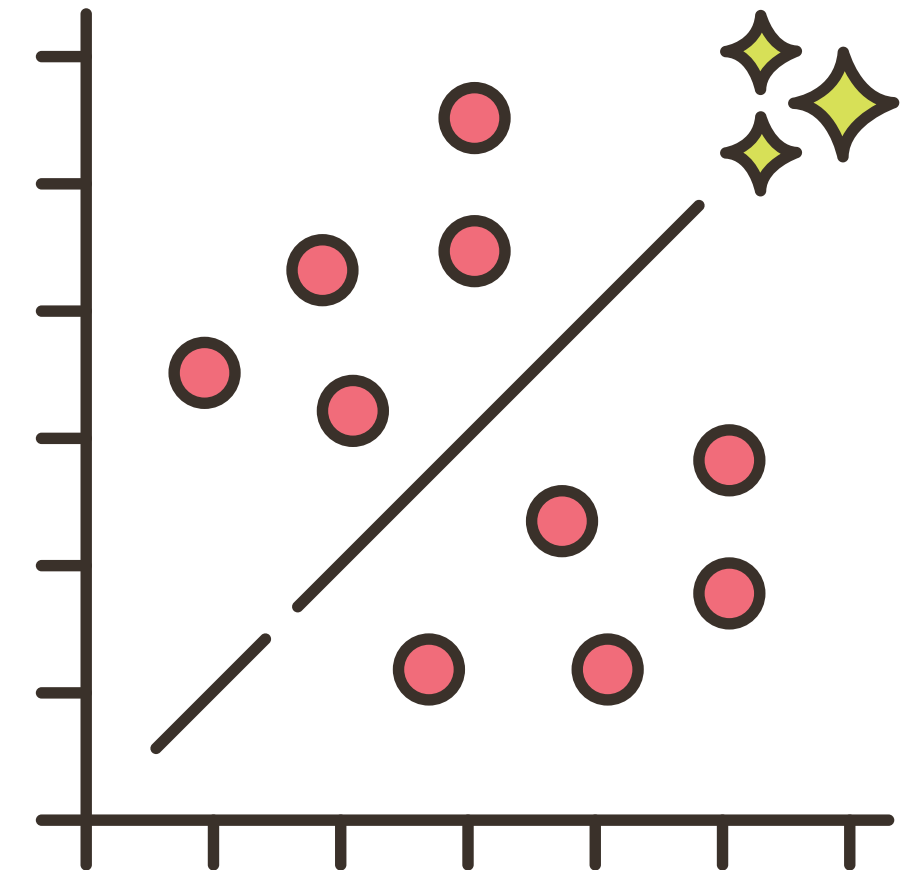
- Underfitting
- Overfitting

## Module 11 : DISTANCE METRICS

- Euclidean
- Distance

## Module 12 : OUTLIER ANALYSIS

- What is an Outlier?
- Inter
- Quartile
- Range box & whisker plot upper
- Whisker Lower
- Whisker Scatter
- Plot



## **Module 13 : MISSING VALUE TREATMENT**

- What is NA?
- Central Imputation
- KNN imputation
- Domification

## **Module 14 : CORRELATION**

- Pearson correlation
- Positive & Negative correlation

## **Module 15 : ERROR METRICS IN ML**

### **CLASSIFICATION**

- Confusion
- Matrix
- Precision
- Recall
- Specificity
- F1
- Score

### **REGRESSION**

- MSE
- RMSE
- MA E



## Module 16 : DEEP LEARNING SYLLABUS

- ANN – Artificial Neural Network
- RNN -Recurrent Neural Network
- CNN – Convolutional Neural Network
- Activation Functions
- Loss and cost functions
- Keras framework
- Tensorflow framework
- Optimization function



# Value Added Courses

## English Speaking Course

- Fluency, Confidence, Public Speaking

## Resume Building

- Crafting ATS-friendly resumes tailored to your profile

## Interview Preparation

- Mock interviews, HR & Technical rounds, Feedback sessions







# Key Highlights

- 6 Months Online Training with Live Classes
- Placement with Campus Interviews
- Mock Interviews & HR Interview Training
- Learn from IIT Alumni & Industry Experts
- Hands-on Learning with Real-World Projects
- 100% Placement Assistance with Interview Prep
- Doubt Support & Weekly Assessment

- Industry-Relevant Tools: Python, SQL, Tableau, Power BI
- Globally Accepted Course Completion Certificate
- English Communication & Public Speaking Included
- Resume Building, LinkedIn Review & Freelance Guidance
- Weekly Doubt Sessions, Quizzes & Mock Interviews

# Real-World Projects

- **Healthcare Analytics** – Predict patient readmission using historical data
- **E-commerce Recommendation System** – Build product suggestions based on user behavior
- **Sales Forecasting** – Analyze trends and predict future sales using time-series data
- **Capstone Project** – End-to-end real-world project with deployment







# Thank You



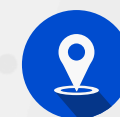
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