



SKILL CODE CAREER

Certified Data Science Course

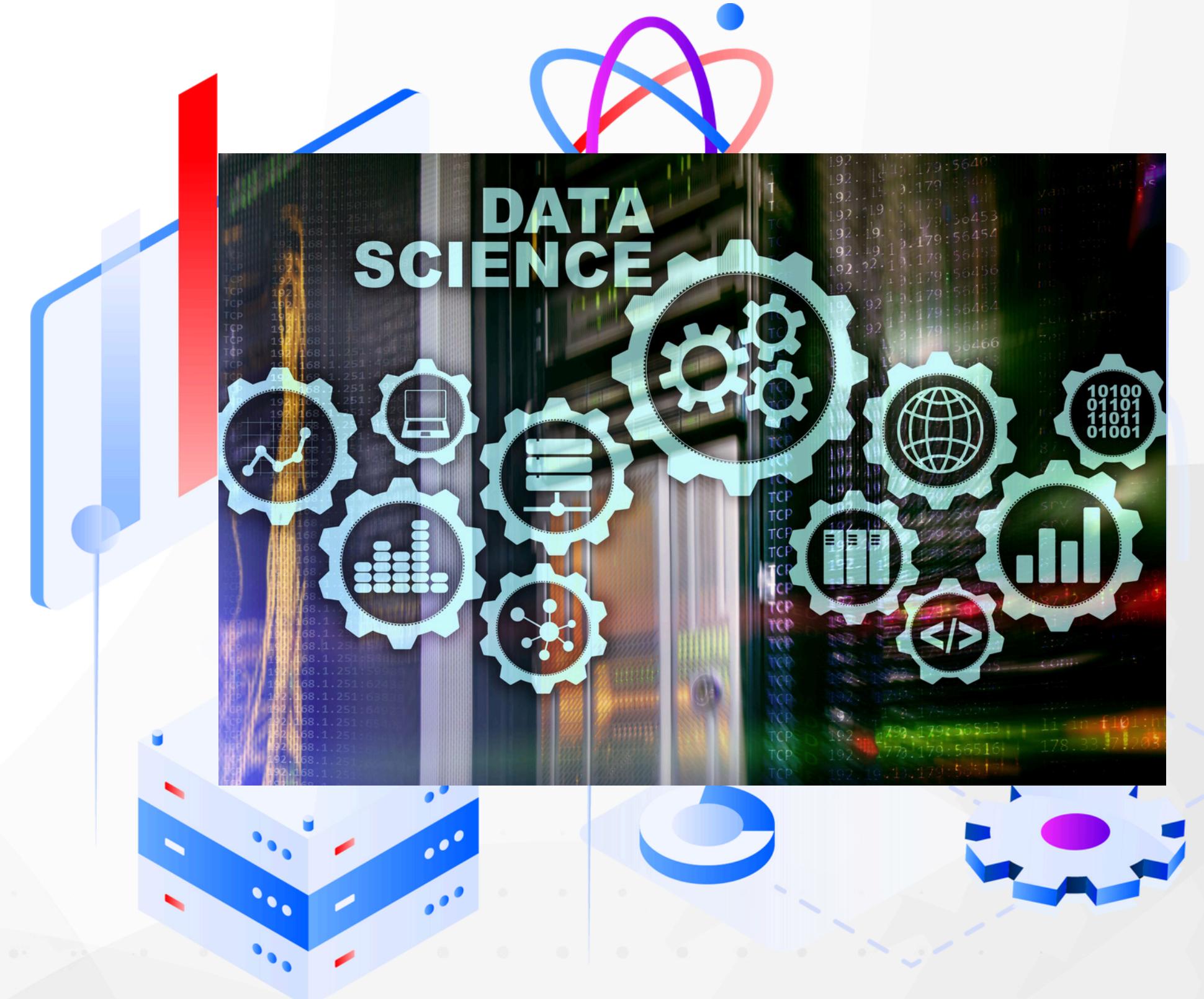
Your Gateway to a Successful Data
PROFESSIONAL Career

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



Impressa Solutions



Genzailabs pvt Ltd



**ValueTime Online
Services Pvt Ltd.**



InMed Prognostics 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

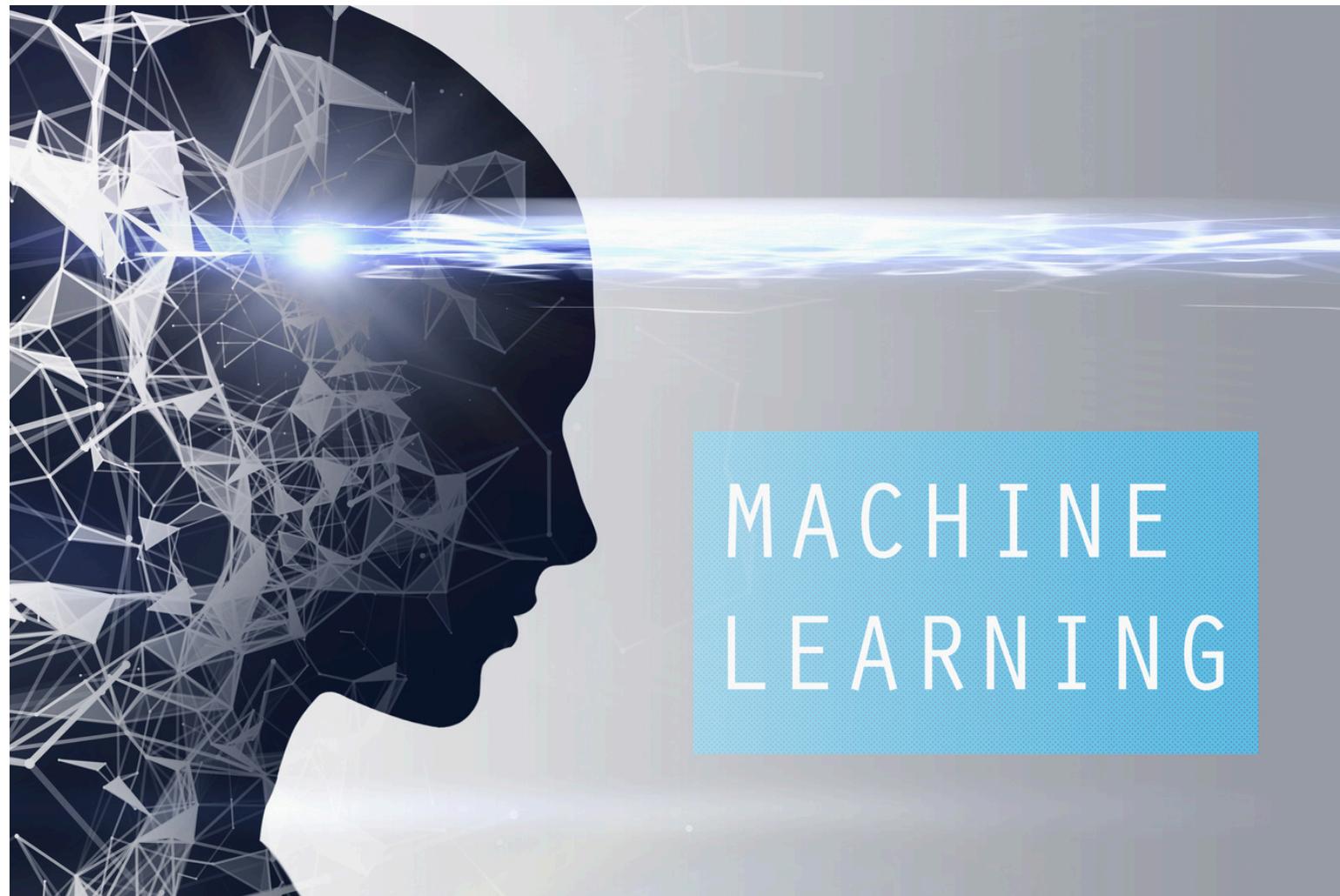
- ODDS ratio Probability of success
- Probability of Failure Bias Variance Tradeoff ROC Curve
- Bias Variance Tradeoff

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 KERNEL

- Linear
- Radial
- Polynomial

MODULE 6 : OTHER MACHINE LEARNING ALGORITHMS

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



Module 7 : STATISTICS IN MACHINE LEARNING

- Mean o Median
- Mode
- Skewness
- Normal Distribution

Module 9 : STANDARD DEVIATION

- Data deviation & distribution
- Variance

Module 8 : STATISTICS IN MACHINE LEARNING

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



Module 10 : BIAS VARIANCE TRADE-OFF

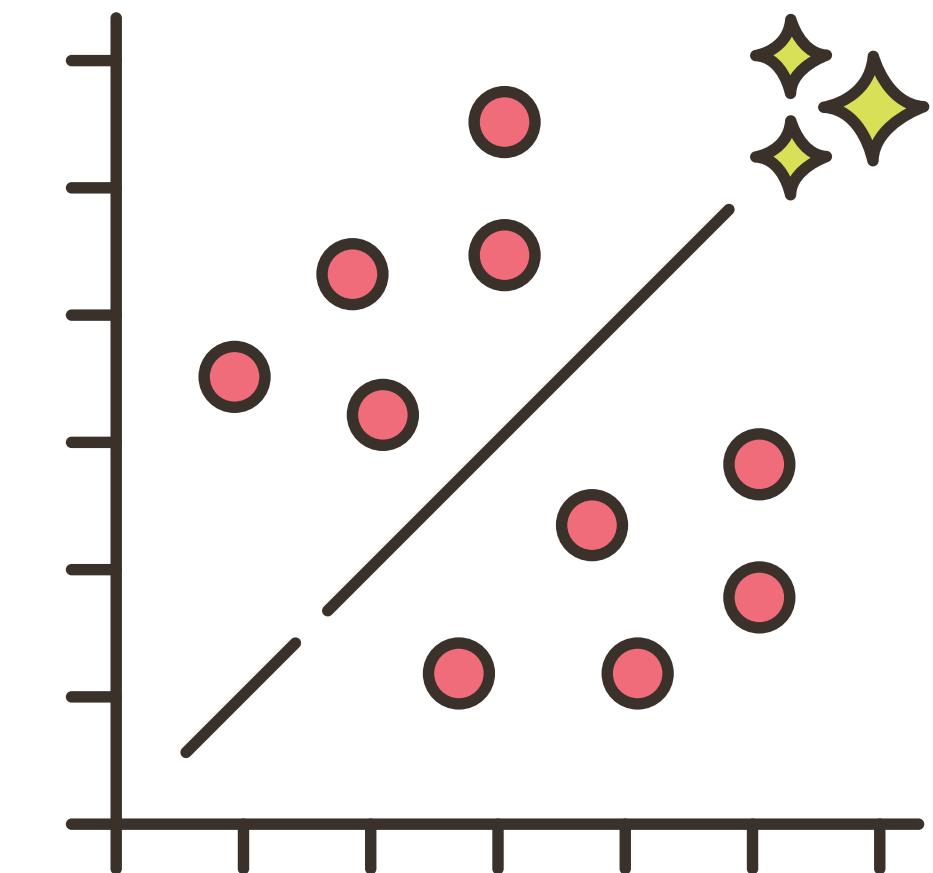
- Underfitting
- Overfitting

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
- MAE

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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