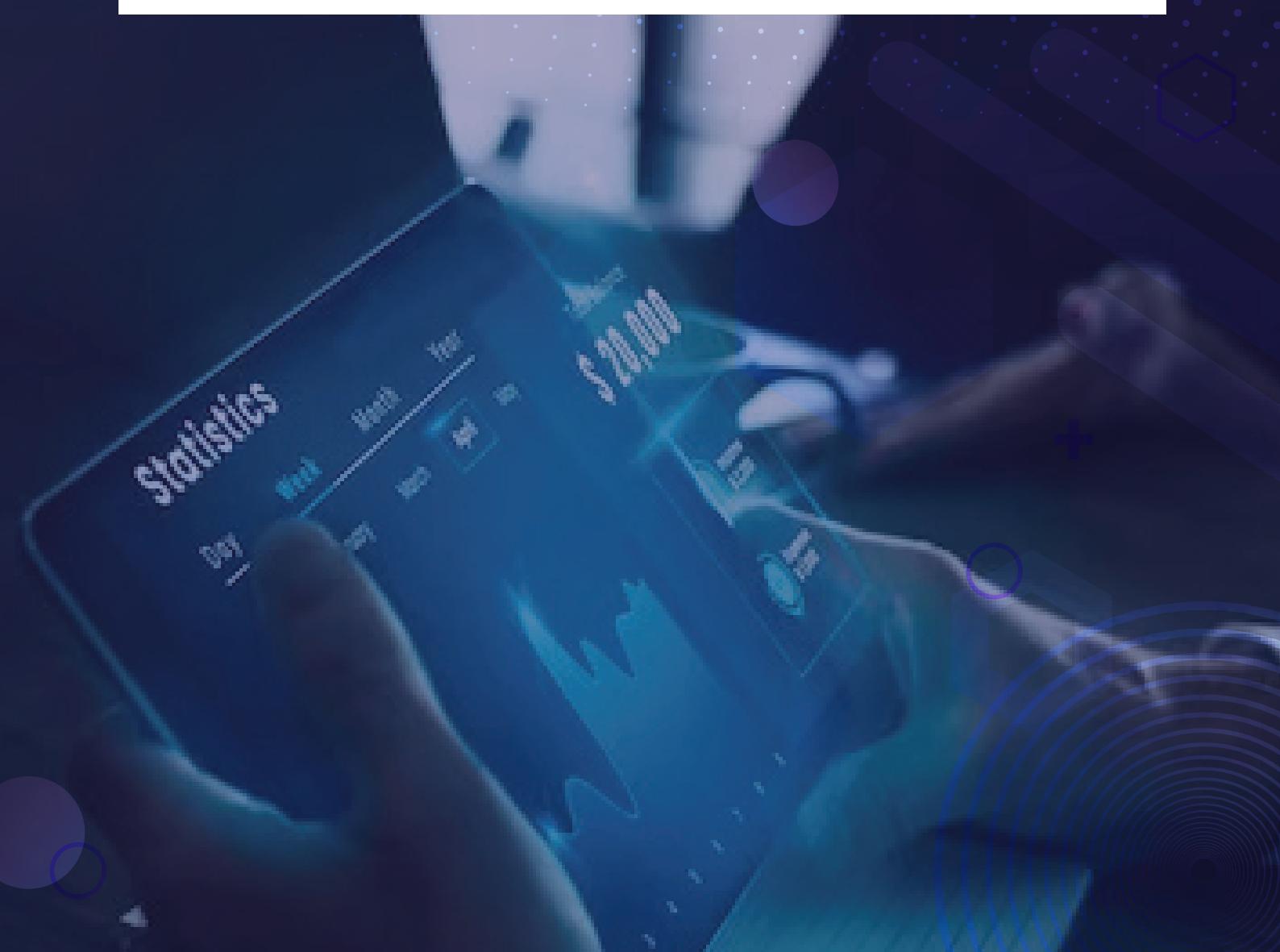


# EMPOWER BUSINESS DECISIONS WITH DATA DRIVEN INSIGHTS

## MASTER DATA SCIENCE WITH GRRAS

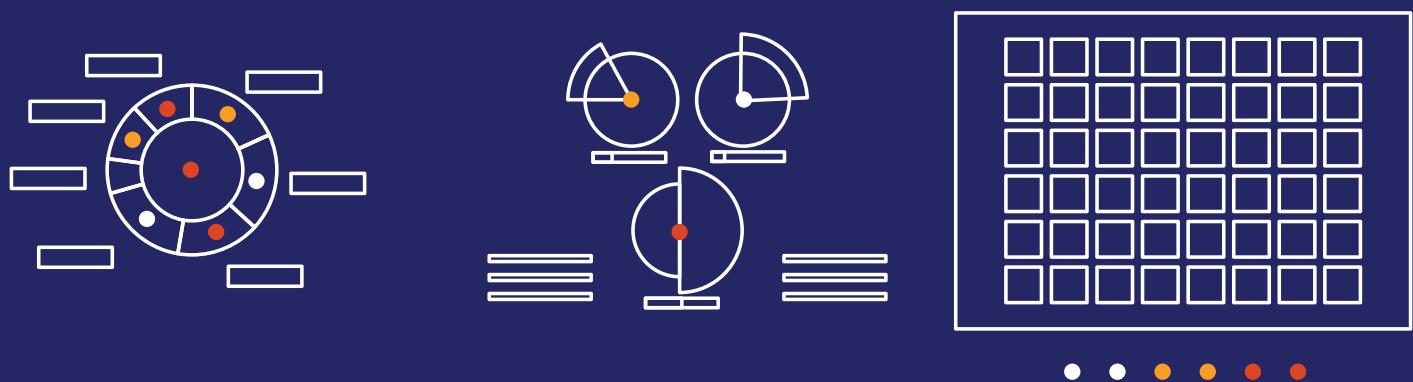


JOIN GRRAS FOR  
JOB READY SKILLS

# Let's First Understand The Science Behind Data

Data science is a field that uses scientific methods, algorithms, processes, and systems to gain insights and knowledge from different types of data.

Think of data science as a translator. It turns messy data into something powerful using AI and machine learning. This helps unlock the true potential of AI and machine learning.



# The Data Science market

Owing to the rapid technological advancements the growth of Data Science market has been exponential!

Organizations like Nvidia, Meta, Oracle, IBM are some of the big names increasingly adapting and leading the usage of Data science tools.

The market of Data science is growing mainly due to these reasons:

1. Increasing demand for Insights/conclusions from the vast amounts of data being generated.
2. Exponential advancements in the field of Artificial Intelligence and Machine Learning.

With a positive outlook, the data science market is projected to hit USD 178 billion by 2025, while its use of AI is expected to grow by 13.7%, reaching USD 202.57 billion by 2026.

## Data Scientist Salary in India based on 43.4k latest salaries

Average Annual Salary

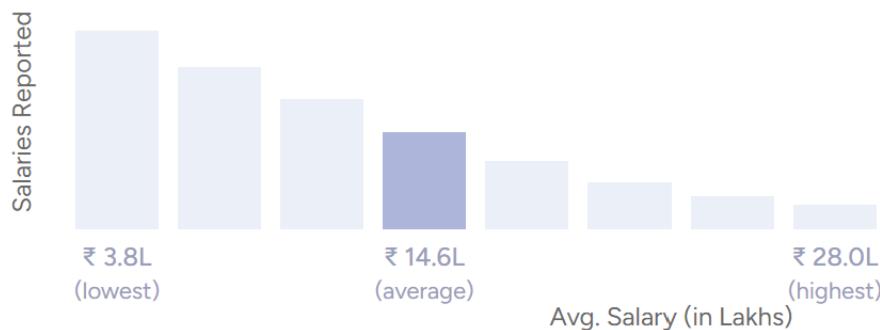
**₹14.6 Lakhs**

■■■ Very High Confidence i

Estimated Take Home Salary

**₹ 72,177 - ₹ 74,038**

[Calculate Your Take Home Salary](#)



# Who Should Do This Course?

This course is for anyone looking to start a career in data science. It's designed for:

## **Beginners**

If you're new to data science, this course will help you become proficient.



## **College students & Freshers**

Mastering data science is essential for many companies. This course will give you a strategic advantage.

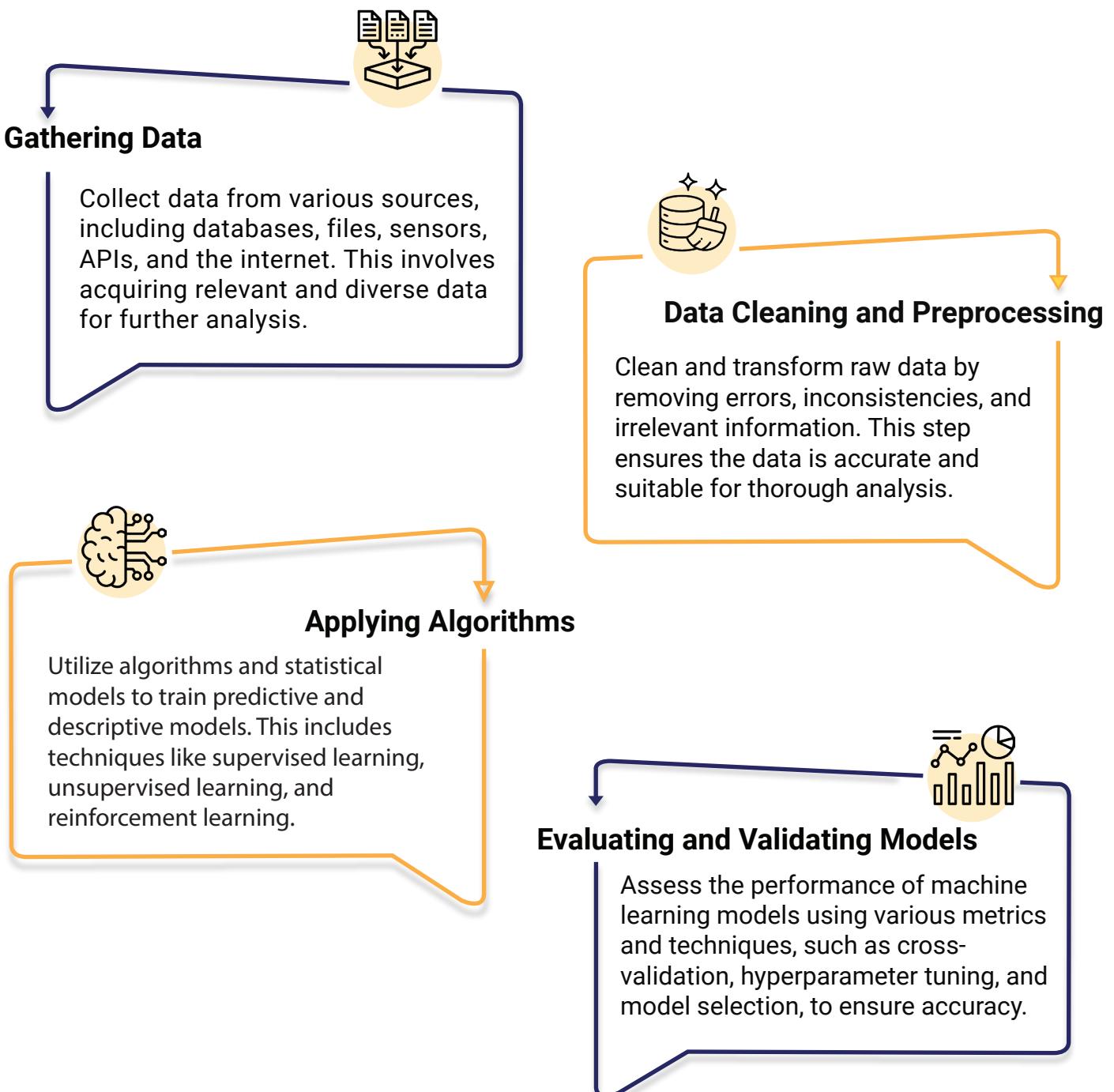


## **Working Professionals**

If you want to advance your career and get a salary hike, this course will help you land your dream job by covering all the fundamentals and tools related to data science.

# Why Should You Learn Data Science In this Era?

Data science is essential for decision-making, forecasting, risk management, customer segmentation, fraud detection, recommendation systems, and more. It offers:



# Steps to Master Data Science

Follow these steps to master data science



## EVALUATE

Assess the problem and understand the requirements.



## TRAIN ALGORITHM

Apply algorithms to train predictive models.



## GATHER DATA

Collect data from various sources.



## EXPLORE AND VISUALIZE

Analyze and visualize the data to gain insights.

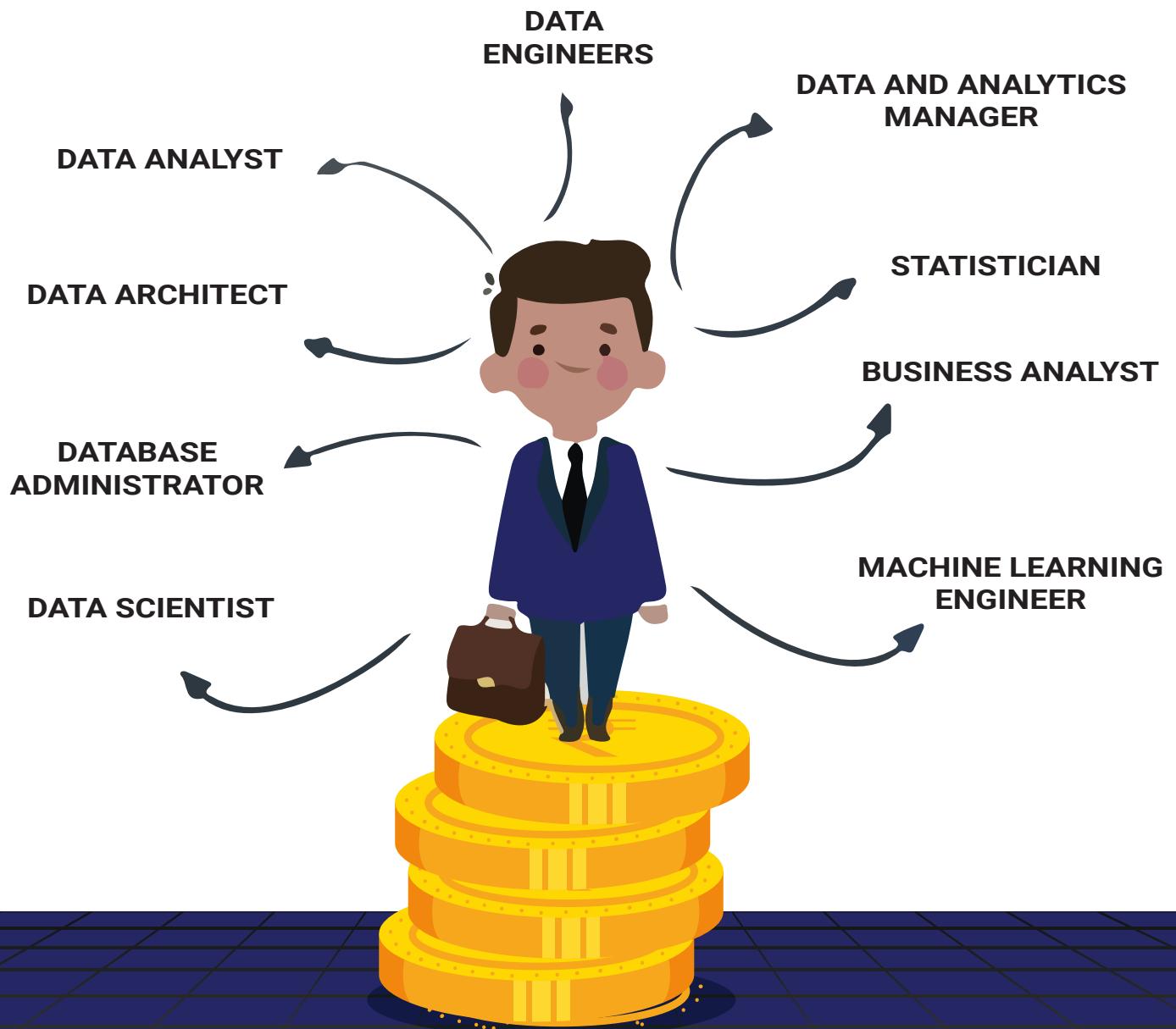


## CLEAN DATA

Remove inconsistencies and irrelevant information from the data.

# Future Opportunities For You

Mastering data science opens many opportunities in various fields due to its high demand and importance. Here are some opportunities you might consider after completing this course.



# Modules that we'll Cover

## ↳ **Data Engineering**

### **Data Collection**

- Fetching data using REST APIs
- Fetching data from different data resources
  - Websites
  - Online Repositories
  - Online data sources

### **Data Preprocessing**

- Cleaning Unstructured Data into Structured Data
- One Hot Encoding
- Text Processing using Vectorization and Bag of Words
- Finding and Fixing / Removing Outliers in Data
- Dealing with semi-structured data

## ↳ **Exploratory Data Analysis**

### **Math's and Statistics**

- Descriptive Statistics – Mean, Median, Mode,
- Percentile, Decile, Variance, Standard deviation
- Inter Quartile Range (IQR)
- Different types of Data Distribution
- Probability and Bay's Theorem

### **Data Preprocessing**

- Cleaning Unstructured Data into Structured Data
- One Hot Encoding
- Text Processing using Vectorization and Bag of Words
- Finding and Fixing / Removing Outliers in Data
- Dealing with semi-structured data

## **Numpy**

- Difference between list and array
- Creating, accessing and manipulating n dimensional numpy arrays
- Array Operations
- Numpy built in functions
- Manipulating images with array manipulation

## **Pandas**

- Introduction to Pandas
- Introduction to series and operations with series.
- Dataframe and its operations
- Data Filtering row and column wise.
- Data Filtering based on conditions.
- Handling date time type data using pandas.
- Pandas built in functions.
- Drop rows/columns
- Handling null values using pandas.
- Groupby, orderby, sorting, indexing

## **Analysis of Data**

- Introduction to data analysis
- Apply mathematics and statistics in analysis
- Find insights on real world data by applying different techniques/functions
- Sorting, Searching, Accessing, Manipulation of Data
- Groupby statements and Pivot tables
- Data Aggregation to find Insights

## **Data Visualization**

- Plotting data to get insights from data using MATPLOTLIB, SEABORN, PLOTLY.
- Line Plot, Scatter Plot, Histograms, Box plot to understand numerical data
- Bar Chart, Pie Chart to understand categorical data
- Enhance graph using libraries
- Create multiple axes
- Plotting Live data

## Report Generations

- Generating Reports to showcase insights from data using jupyter notebooks

## ↓ **Introduction to Machine Learning**

- Introduction to Machine Learning
- Supervised, Semi-Supervised, and Unsupervised Machine Learning
- Using sklearn built-in Transforms to create Data Models
- Creating Custom Transforms
- Data Pipelines to convert raw\_data into Structured Data Model

## ↓ **Natural Language Processing**

- Introduction to NLP
- Regular Expressions
- Concepts of NLP like Stemming, Lemmatization, Tokenization
- Convert word to vector using methodologies like Bag of Words(BOW), TfIdf

## ↓ **Supervised Machine Learning Models – Regression and Classification Models**

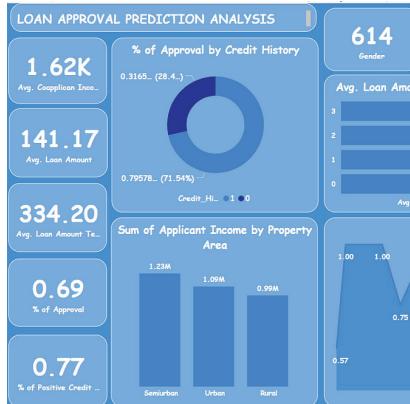
- Linear Regression
- Logistic Regression
- Decision Tree
- Naïve Bays
- Support Vector Machines
- K-nearest Neighbors
- Overfitting, Underfitting and Bestfit
- Performance Evaluation Metrics for classification and regression models

# PROJECTS

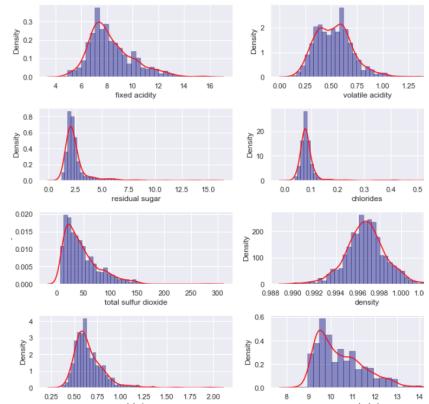
- Car Price Predictor
- Loan Prediction
- Wine Quality Prediction
- Ipl Score Prediction
- Movie Recommendation System
- Ecommerce Customers
- Diabetes Prediction
- Arrhythmia classification using ECG data



Car Price Predictor



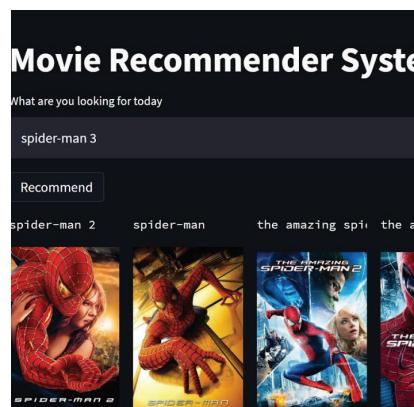
Loan Prediction



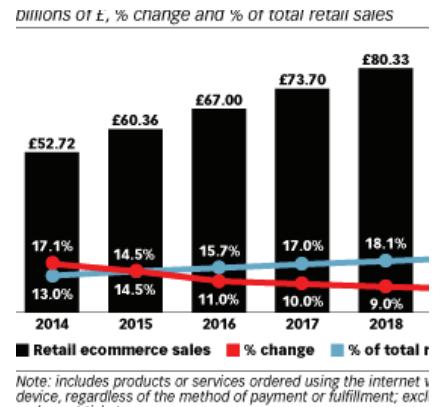
Wine Quality Prediction



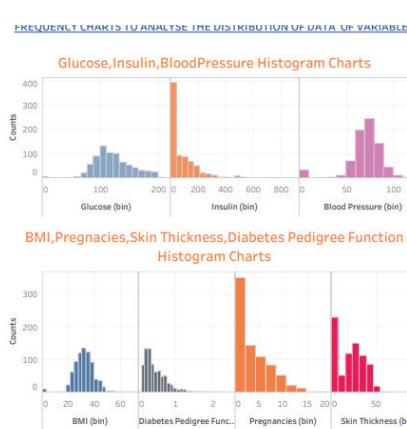
IPL Score Prediction



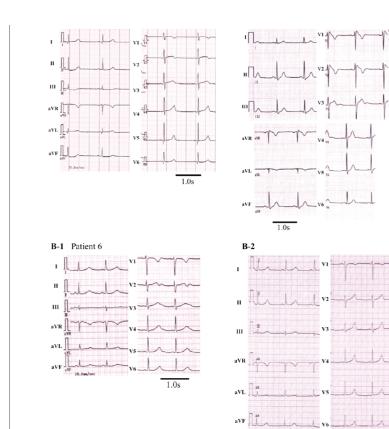
Movie Recommender System



Ecommerce Customers



Diabetes Prediction



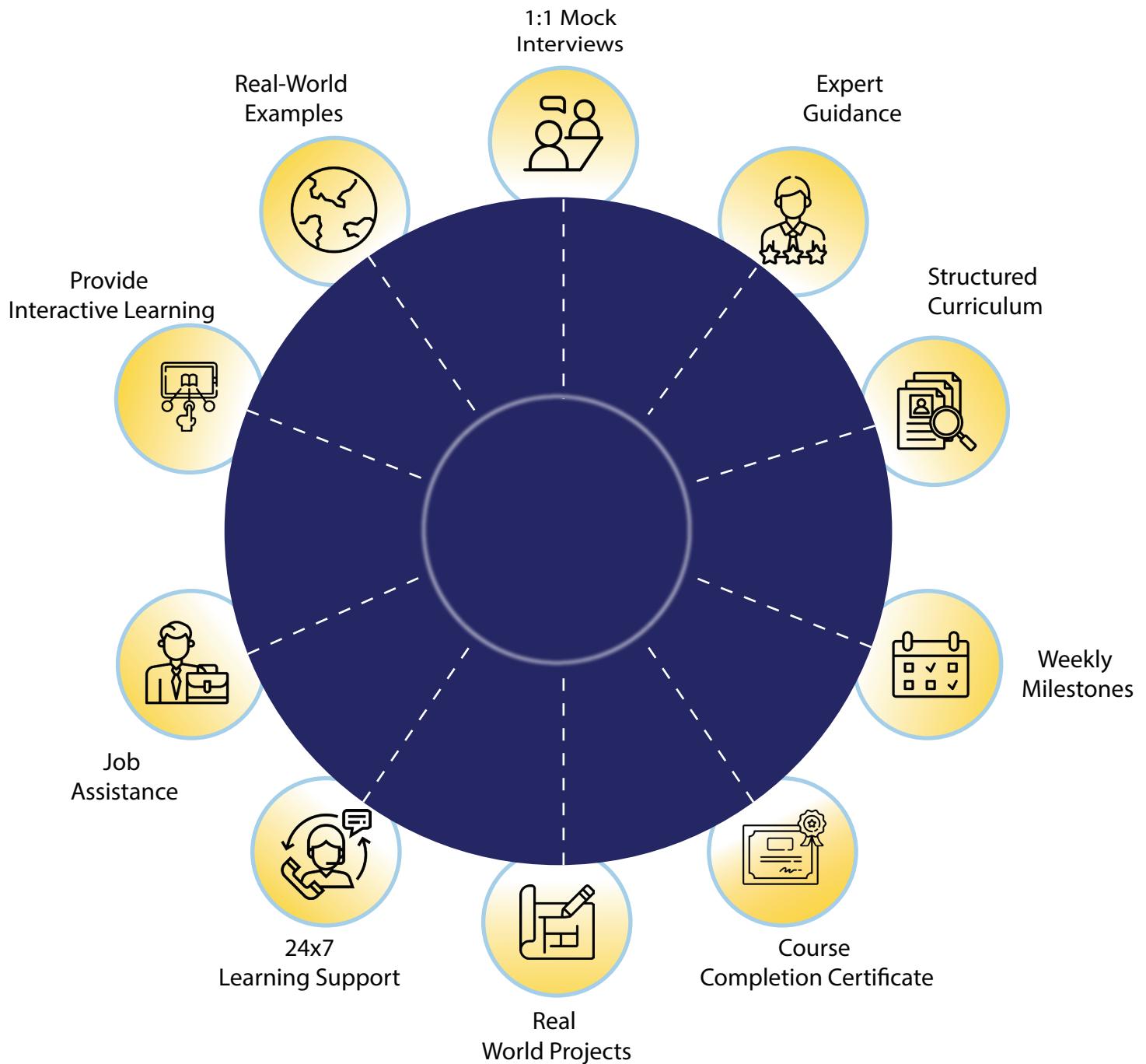
Arrhythmia classification using ECG data



House Price Prediction

# Why Master Data Science from GRRAS?

Learning data science from GRRAS Solutions opens many opportunities. With our comprehensive curriculum and experienced instructors, you'll gain the skills and knowledge needed to excel in the field. Our job-ready course ensures you are well-prepared for various roles in data science.



## 100% Job Assistance!

Yes, you heard it right. In this course we not only provide you expert learning but also 100% job assistance. We have a panel of expert job coordinators and 500+ hiring brands ready to take a challenge to assist you 100% with your dream job.

# CERTIFICATION

Get an Accredited and Recognized Certificate upon successful completion of this course.



## CERTIFICATE *of* TRAINING

This certificate is *Awarded* to

**YOUR NAME**

for successfully completing the

at

GRRAS Solutions Pvt. Ltd. from \_\_\_\_\_ to \_\_\_\_\_

We commend your dedication and hard work. We're confident that the skills and knowledge you have acquired will greatly contribute to your future success!

Unique Certificate No.

**GD-635023**

A blue ink signature of the Director's name.

DIRECTOR



DATE

**WWW.GRRAS.COM**

2<sup>nd</sup> Floor, 36 Basant Bahar, Gopal Pura Mode,  
Jaipur, Rajasthan 302018



# Here it Directly From our Students

This is one of the best institute where you can learn any technology literally from scratch. I personally enrolled in Python course and classes started from the very basic of programming. The labs are upto the mark. Timings of the classes are also suitable according to our schedule of regular classes. You are given assignments and labs for the practice purpose and all the assignments are regularly checked by respective instructor. I personally recommend you to join the institute if you want to learn something from the basis to advanced level.

**Gaurav Singh |**



I recently completed a Python internship at Grass Solutions, and I must say it was an incredible learning journey. Throughout my time there, I had the opportunity to gain valuable insights into the world of Python development, and I couldn't be more pleased with the overall experience.

Mentorship: One of the standout aspects of my internship was the exceptional mentorship provided by the team at Grass Solutions. From day one, I was paired with a knowledgeable and approachable mentor who guided me through .....

**Manish Bairwa |**



My experience at the Grras solution Pvt. Ltd institute is so positive and it's a great institute for the IT training and one of the best thing I like about this institute that the trainer's are very supportive and so understanding and the course material is also easy to understand with the explanation of trainer's...

**Aftab Ansari |**



GRRAS must be one of the best institutes in Jaipur. The kind of support and guidance they provide, it will definitely help you to grow and achieve the target you are looking for in your career. As far as my opinion is concerned, don't look for the other options

**Subhashini Anamthu |**



# When Our Students Succeed, We Succeed!

## Where Our Proud Alumni SHINE



amazon

CarDekho  
EIGHT CAR, EIGHT NOW

make my trip



YK PIRIO

redhat  
LINUX

accenture

Cyberoam  
A SOPHOS Company

freecharge

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and 600+ companies

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## Vedant Laxkar |



This GRRAS Solution Pvt. Ltd. Is great training center. I'm doing data science here. They have excellent knowledge about their courses Trainers are good experience and excellent knowalage.The trainers in GRRAS Solution is excellent and good experienced.



## Priyanshu Tambi |



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Trainers are good experience and excellent nowalage.



## Ayush Gupta |



This Grras Solutions Pvt Ltd. is traning center. I'm doing data science here.The trainers in Grras solutions is great experience.Gras Solution is a great facilities and opportunity. This institute of the great job opportunities. They the great knowledge about there their courses  
Trainers are experience.



## Tanish Khandelwal |



I recently completed the internship in Data Science and Machine Learning using Python at GRRAS Solutions Pvt Ltd, and I couldn't be more satisfied with my experience. The curriculum was comprehensive, covering essential concepts and practical applications of data science and machine learning, which have immensely helped me in gaining a solid foundation in this field.



## Nikhil Pathak |

# More about Us



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