

AI & MACHINE LEARNING

INTRODUCTION USING PYTHON

FOR STUDENTS WITH AN INTEREST IN AI &
DATA SCIENCE.

TU CAREERS
Success Analytics

Why

SHOULD YOU LEARN AI

Ever wondered how

- Alexa and Google Assistant work ?
- Amazon or Netflix recommend shows and movies?
- Bots are able to trade stocks on their own?
- AI is helping doctors & sportsman?



Do these applications of Artificial Intelligence (AI) and Machine Learning (ML) excite you? If you are curious to know how these applications work, have a hands on experience implementing these in Python and peek in the future potential of these technologies then this course is right for you.



In this hands-on course, with live tutoring by industry professionals we will introduce you to the fundamentals of statistics, python coding, machine learning, AI and its various applications across different industries.



You will receive a certificate on completion, and a capstone project certificate from the industry partner which can help you build your profile and showcase skills in the area.

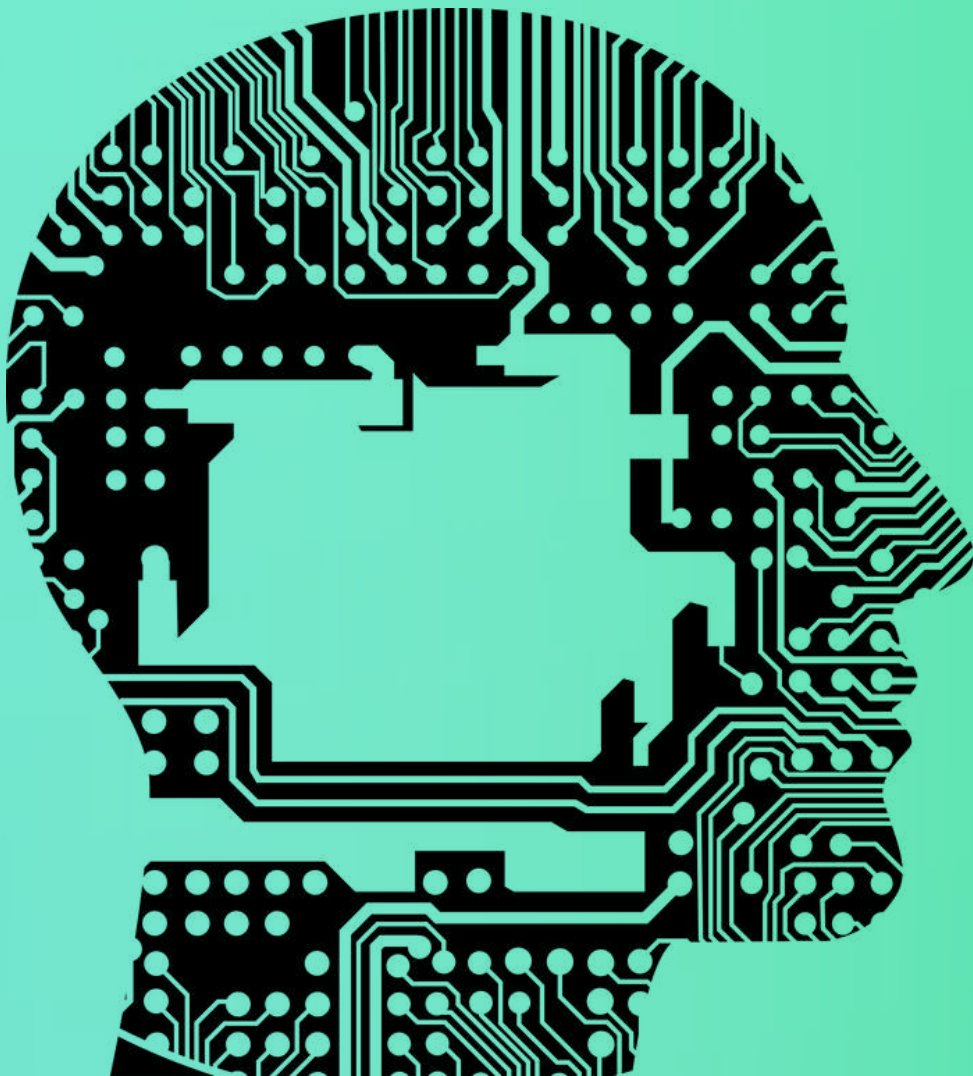


“

“A year spent in artificial intelligence is enough to make one believe in God.”

”

- Alan Perlis



Who

IS THIS COURSE FOR?

This course has been designed for learners for ages 15 and up. Separate cohorts for

- Students of grades 10 - 12
- Graduates from ANY stream
- CS/ECE/BCA students

Keen interest in learning in the AI/ML & Data Science area

Coding experience though desirable, *is not essential*

PROGRAM FEE

INR ~~75,000~~ 30,000 (INDIA)

USD ~~1000~~ 400 (GLOBAL)

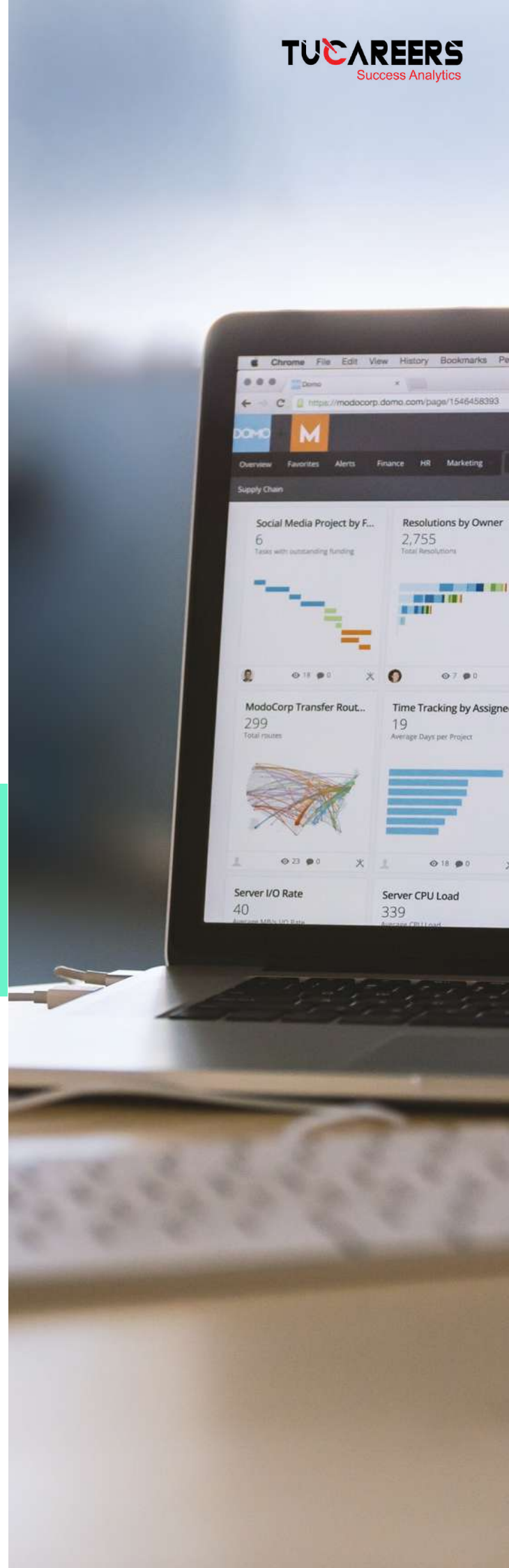
How To Enroll

- **Pay the program fee**

You can make the payment from the [course page](#)

- **Get Access to Course**

On successful payment you will access to the preparatory content of the course on academy.tucareers.com



What

ARE THE BENEFITS OF THE COURSE



GET THE BASICS RIGHT

Get introduced to the essentials of statistics, programming and develop an intuitive and conceptual understanding of advanced concepts.



LIVE CLASSES AND INTERACTIONS

Video based MOOC courses are available in plenty, however the completion rates are very low for these. Live classes ensures clarification of doubts and a rich learning experience.



MEET LIKE-MINDED PEERS

Join a network of highly motivated and interested peers, who are also working on developing their AI and data science skillsets



BUILD A WORTHWHILE PROJECT

The CAPSTONE project provides an opportunity to implement what you like or choose from a set of options. Be mentored and supported in your efforts.

GET CERTIFIED

Put in the hard yards and earn the right industry and academic certification which will hold you in good stead.



HIGHLY TRAINED FACULTY

The faculty have been teaching AI, Statistics, NLP & Big Data for past 6 years. They are published researchers and have successfully leveraged their research in AI applications



VALUE FOR MONEY

The course is available at a significant discount from similar courses available internationally and in India.



PROFILE BUILDING

Tucareers.com also provides profile building and study abroad services that can help you make successful college application or preparing for campus interviews



What

IS THE COURSE COVERAGE

MODULE: 01

BASICS OF DATA SCIENCE

Unit 01

Introduction to AI & Data Science

Unit 02

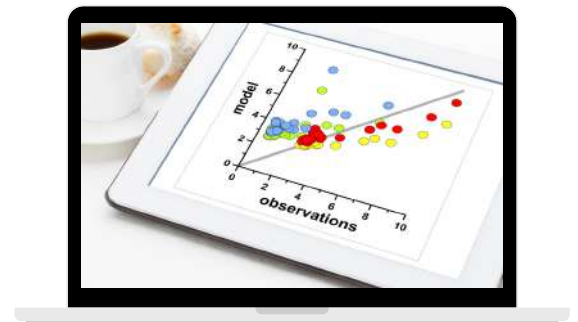
Statistics Overview

Unit 03

Probability Theory

Unit 04

Research Methodology



MODULE: 02

GETTING STARTED WITH PYTHON

Unit 01

Introduction to Python

Unit 02

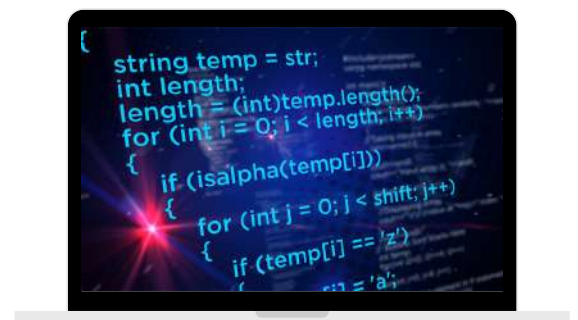
Data Types, Operations and Variables

Unit 03

Conditions, Functions and Loops

Unit 04

Lists, Strings, Tuples and Dictionaries



MODULE: 03

MACHINE LEARNING OVERVIEW

● **Unit 01**
Introduction to Machine Learning

● **Unit 02**
Hands on Case Study with Regression

● **Unit 03**
Hands on Case Study with Classification

● **Unit 04**
Introduction to Neural Networks & Deep Learning



MODULE: 04

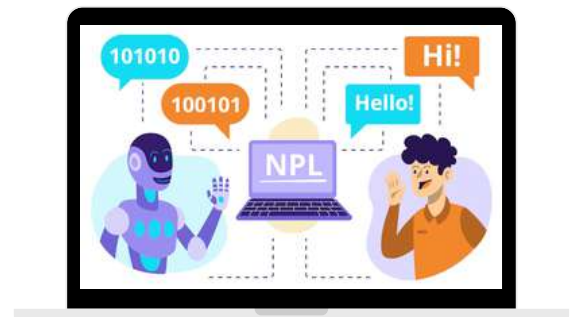
NATURAL LANGUAGE PROCESSING

● **Unit 01**
Introduction to Natural Language Processing

● **Unit 02**
Bag of Words Models

● **Unit 03**
Embedding based Models

● **Unit 04**
Implementing a Recommender System



MODULE: 05

COMPUTER VISION & THE FRONTIERS OF AI

● **Unit 01**

Introduction to Computer Vision

● **Unit 02**

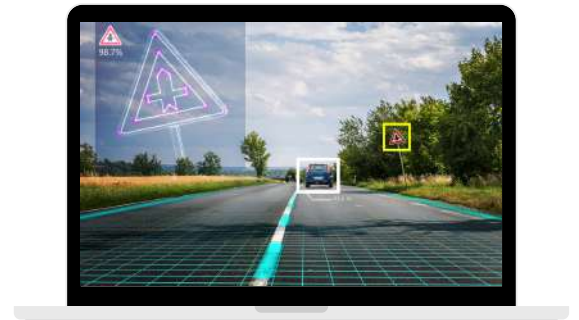
Convolutional Neural Networks

● **Unit 03**

Hands on for Computer Vision

● **Unit 04**

Latest Developments in AI (Open AI, GPT etc.)



MODULE: 06

CAPSTONE PROJECT

● **Unit 01**

Project Implementation and Demo



Faculty

You're in excellent hands with our highly trained and experienced faculty, who have trained over 1000+ students and professionals.

Mohit Bhatnagar

STATISTICS, AI / ML, NATURAL LANGUAGE PROCESSING, RESEARCH



Founder Uplytics Consulting & Tucareers.com.
Adjunct Professor IIM Lucknow & Upgrad for AI , Cognitive & Business Analytics.

B.E. (IIT Roorkee), PGPEM (IIM Bangalore), PhD (Decision Sciences, IIM Lucknow)

Mukund K Veeraraghavan

AI, ML, DATA SCIENCE, COMPUTER VISION, PATTERN RECOGNITION



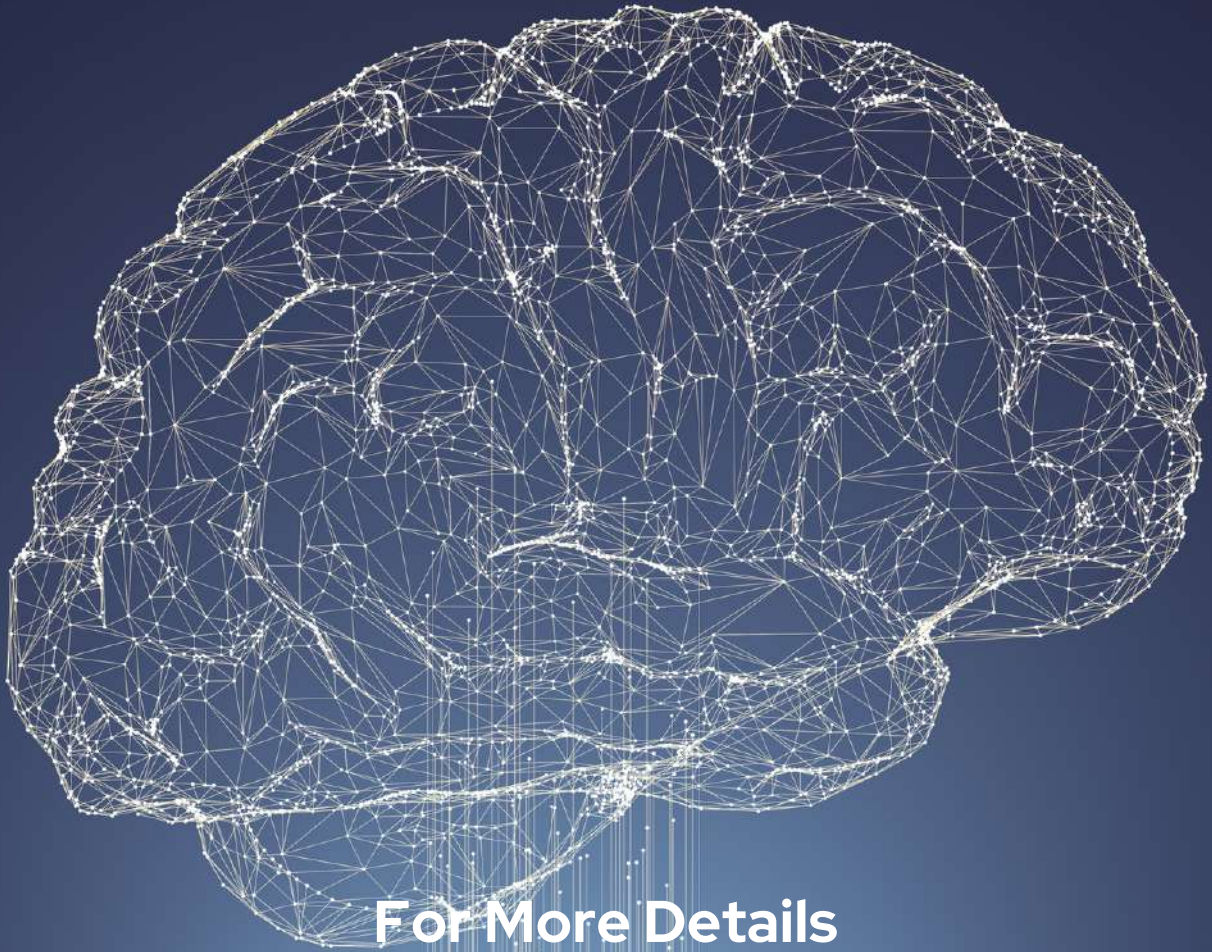
Founder Jnana.co. Certified mentor & trainer at Coursera, Upgrad & Springboard. Extensive research experience in Data Science at IBM TJ Watson, NY.

B.Sc. (Maths and Physics Hons), B.E (Indian Institute of Science), M.S (Wayne State University), P.M.P

Certificate

On successful Completion certificate from Tucareers.com and a capstone project certification from the industry partner on successfully meeting requirements.





For More Details
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