



ShikshaVertex

# Artificial Intelligence

## AI Mastery Starts Here !



SOLO SPRINT



LIVE EDGE



CAREER EDGE



**Added Extra Credentials From Leaders Like IBM**

**(Give The Exam. Get Certified. Stand Out.)**

**IBM**  
SkillsBuild

**#startupindia**

  
**Skill India**  
कौशल भारत - कुशल भारत



# About ShikshaVertex

## Shaping Skills. Elevating Careers

ShikshaVertex is a next-generation EdTech startup committed to transforming careers through powerful, practical upskilling. In an ever-evolving job market, we bridge the gap between academic knowledge and industry-ready skills.

Our mission is to empower students, job-seekers, and professionals with the tools they need to succeed — from foundational skills to advanced specializations in high-demand fields.

We believe that education is not just about learning — it's about evolving. With industry-aligned curriculum, expert mentorship, and outcome-driven training, ShikshaVertex is where ambition meets execution.

### Career-Focused Upskilling



### Mentor Support



### Industry-Relevant Curriculum



### Flexible Learning



### Hands-on Learning



### Certification & Recognition





## Why ShikshaVertex is Different From Rest?

### Built Different: Our Unique Edge



#### Outcome-Driven Learning

Every course is designed with clear career outcomes and job-readiness as the end goal.



#### Industry-Curated Curriculum

Programs are co-created with industry professionals to stay aligned with current and future skill demands



#### Soft Skills Integration

We don't stop at technical skills — communication, leadership, and interview readiness are built in.



#### Mentorship That Matters

Direct access to mentors who are real-world professionals, not just instructors.



#### Real-World Projects

Learners build a portfolio of hands-on projects that showcase practical expertise.



#### Placement Support

End-to-end job assistance, including resume building, mock interviews, and employer connections.

While many EdTech platforms offer courses, ShikshaVertex is built around outcomes. We don't just teach — we transform.

Our programs are meticulously designed to go beyond theoretical knowledge and focus on practical, real-world skills that employers actually look for.

We blend cutting-edge curriculum with mentorship, hands-on learning, and career development, making sure every learner not only learns but levels up — personally and professionally. At ShikshaVertex, we believe in learning that leads to earning.



## Our Top Recruiters

accenture

Google

Microsoft

ORACLE

Tech Mahindra

Deloitte.

tcs  
TATA  
CONSULTANCY  
SERVICES

amazon

fractaboo  
INTELLIGENCE FOR IMAGINATION

IBM.

HCL

BOSCH

Explore Career Opportunities With Our



25+ Domains



Discover Your Career  
Path



Network with Industry  
Leaders



Build a Standout  
Portfolio

Follow Us For Career-Changing Content!

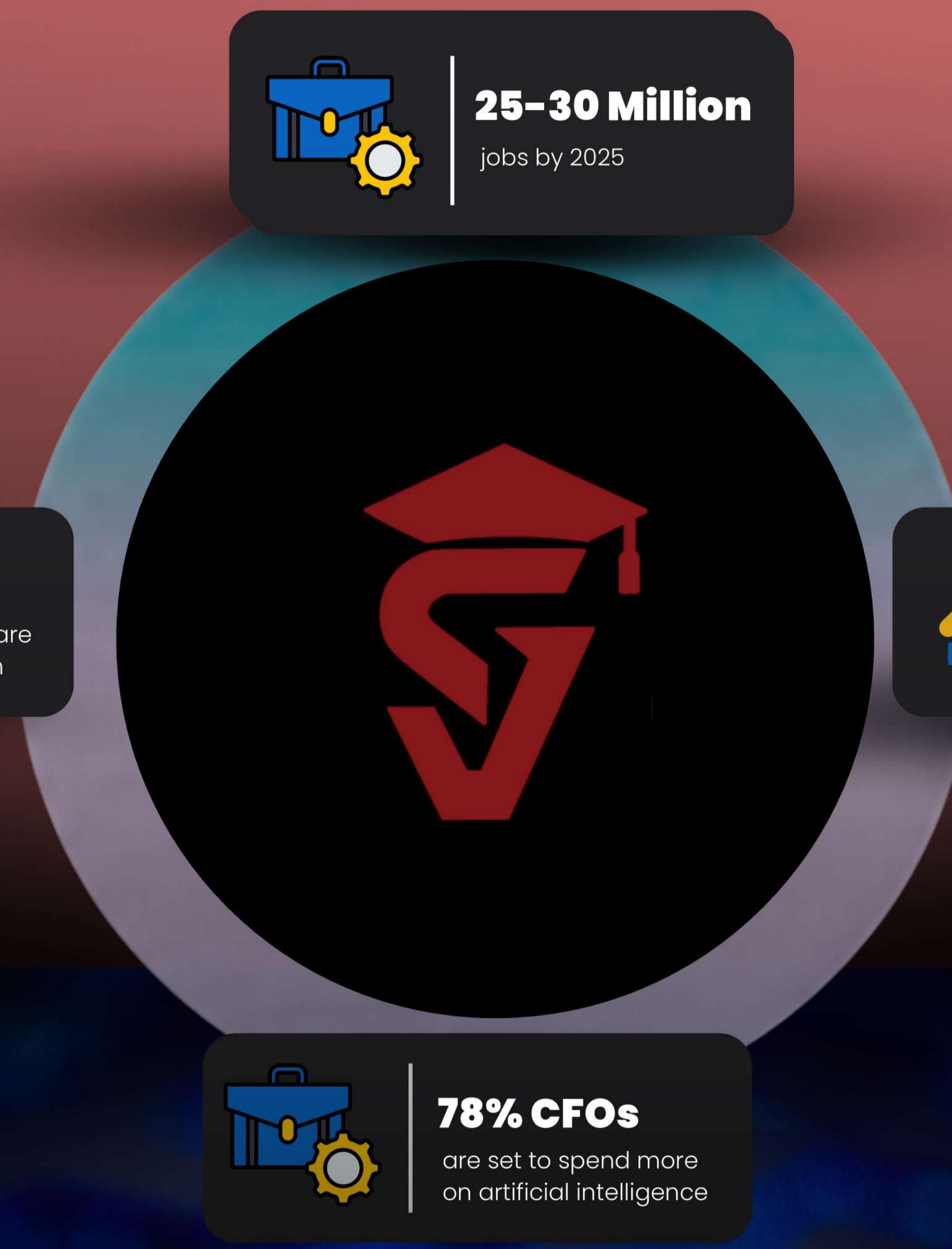


SOCIAL MEDIA

CLICK

(click here for more information)

# Scope of Artificial Intelligence



Step into the future with artificial intelligence — where innovation meets opportunity. Automate tasks, solve real-world problems, and lead in tomorrow's world. Join AI today and be part of the revolution shaping our future.

# Here is all the **Career Fields** you can Excel at

AI Instructor

AI Researcher

AI Scientist

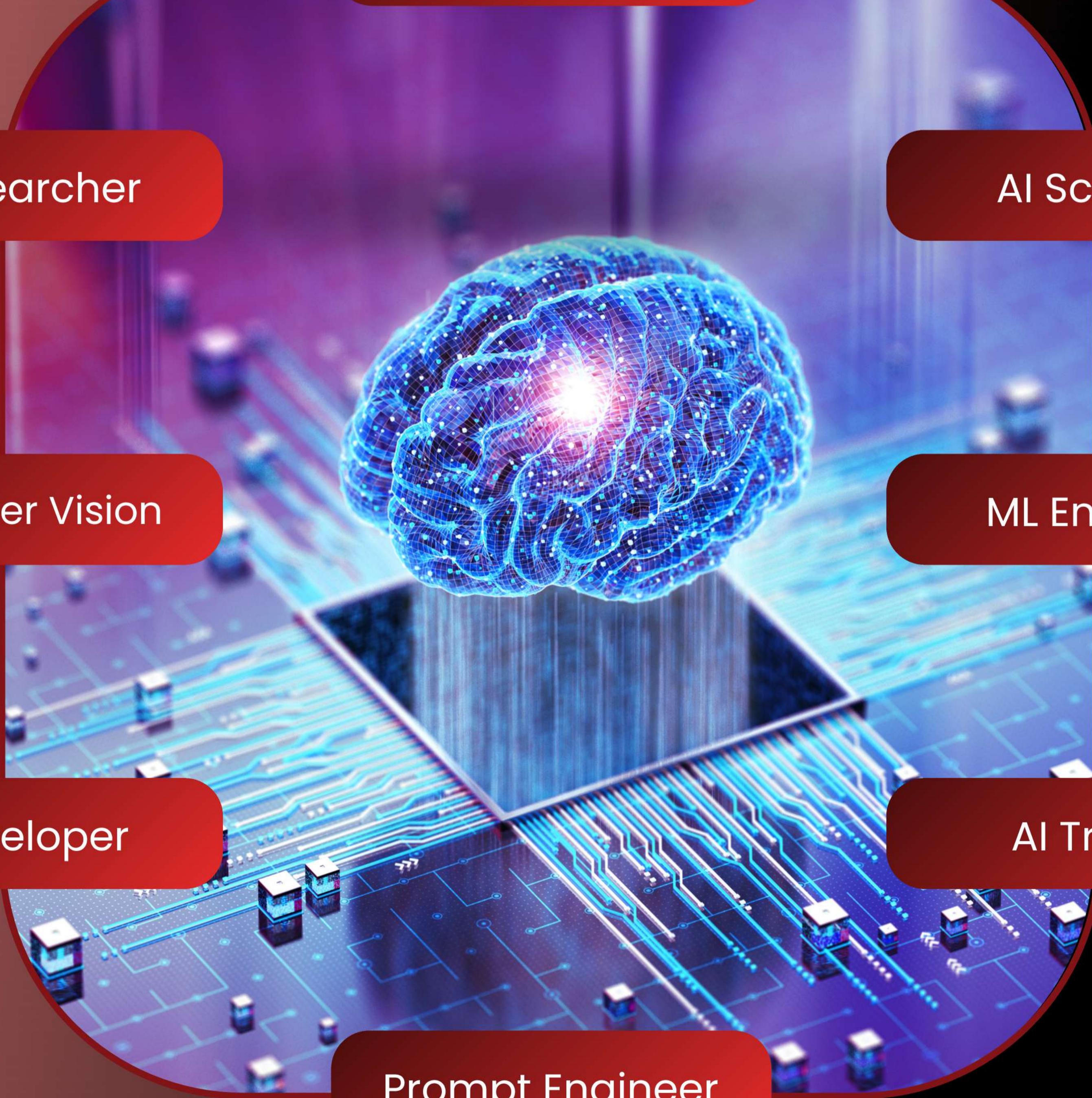
Computer Vision

ML Engineer

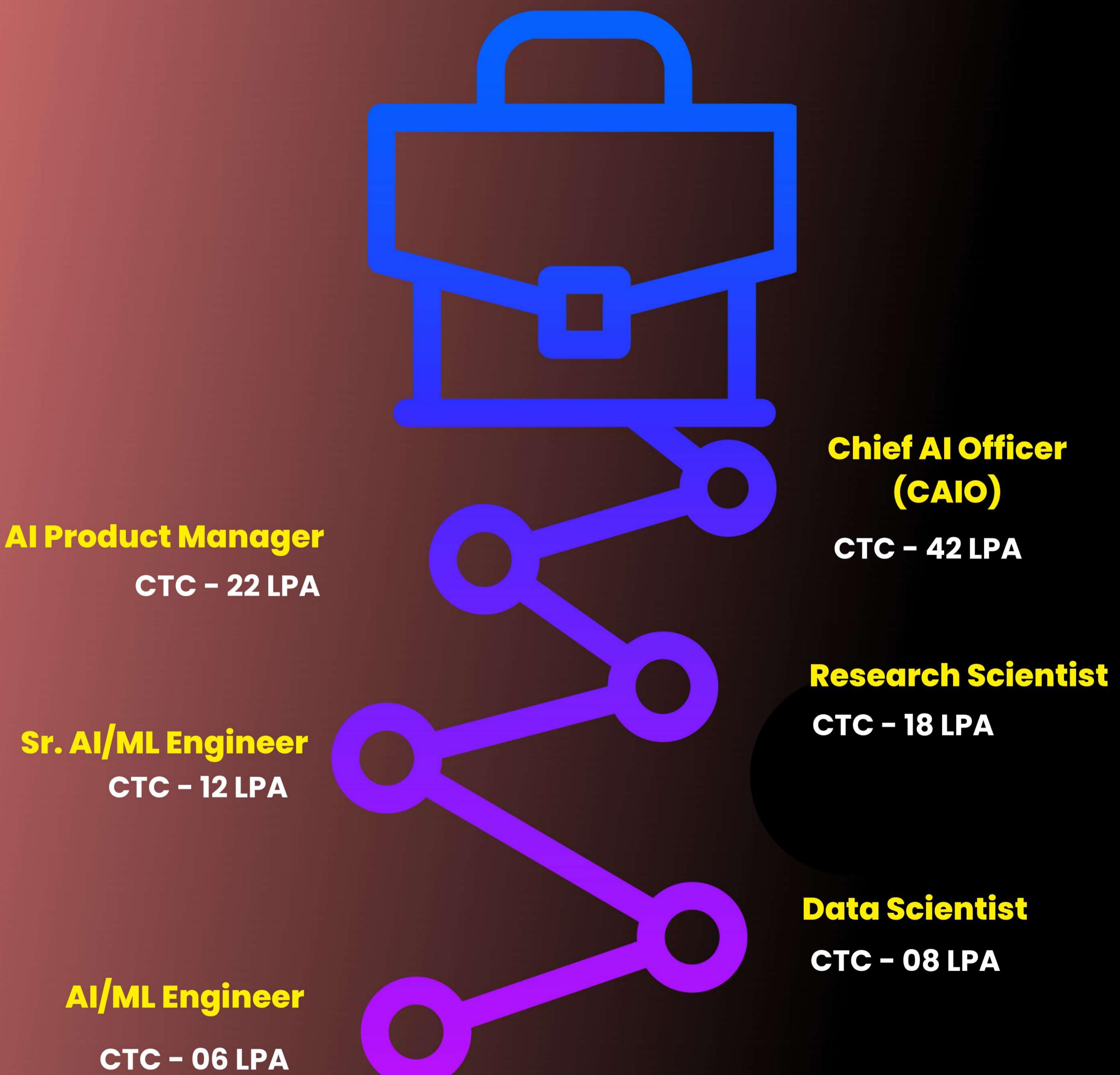
AI Developer

AI Trainer

Prompt Engineer



Here is how your **Career Trajectory** will look like





# 1

## Python Foundations for Data Science & AI

### Getting Started with Python

- ✓ Introduction to Python and its role in Data Science & AI
- ✓ Setting up the environment (Jupyter Notebook / Google Colab)
- ✓ Python Syntax: Variables, Data Types, Input/Output
- ✓ Conditional Statements and Loops (for, while)

### Core Python Data Structures

- ✓ Lists, Tuples, Sets, and Dictionaries
- ✓ Basic operations, slicing, and comprehension
- ✓ Real-world use cases for each data structure

### Essential Libraries for AI

- ✓ Introduction to NumPy: Arrays, vectorized operations, reshaping
- ✓ Introduction to Pandas: DataFrames, importing data, cleaning, filtering, and basic statistics



## 2

# Data Visualization & Machine Learning Fundamentals

## Visualizing Data

- ✓ Using **Matplotlib**: Line, Bar, Histogram, and Scatter plots
- ✓ Using **Seaborn**: Distributions, Heatmaps, and Pairplots
- ✓ Creating interactive plots and dashboards (optional: Plotly intro)

## Machine Learning Basics

- ✓ Understanding Machine Learning: Supervised vs Unsupervised Learning
- ✓ Supervised Learning Concepts: Regression & Classification
- ✓ Building your first model using Linear Regression
- ✓ Evaluation metrics: MAE, RMSE, Accuracy

## 3

# Advanced Machine Learning & Model Building

## Classification Models

- ✓ Decision Trees & Random Forest
- ✓ Naive Bayes Classifier



- ✓ K-Nearest Neighbors (KNN)
- ✓ Model Evaluation: Confusion Matrix, Precision, Recall, F1-Score

### Unsupervised Learning & Deep Learning Concepts

- ✓ Clustering with K-Means
- ✓ Understanding clustering metrics
- ✓ Introduction to Deep Learning: Neural Networks & Perceptrons
- ✓ How Deep Learning connects to Machine Learning

4

## Practical AI Applications

### Image Processing with OpenCV

- ✓ Introduction to OpenCV and image handling
- ✓ Image transformations: Resize, Rotate, Crop
- ✓ Filters, Blurring, and Edge Detection



## Natural Language Processing (NLP) & Applied Statistics

- ✓ NLP Basics: Tokenization, Stop Words, Stemming, Lemmatization
- ✓ Building a basic text classifier (Spam Detection / Sentiment Analysis)
- ✓ Applied Statistics for Data Science: Mean, Median, Mode, Variance, Probability



## Tools and Technologies you'll Learn





## Minor Projects :

AI Voice Assistant



Build a small assistant that responds to voice commands using Speech Recognition and gTTS.

AI Chatbot using NLP



Build a simple chatbot that answers predefined questions using Python and NLTK or Dialogflow.

Fake News Detection



Train a model to classify news as “Real” or “Fake” using TF-IDF and Logistic Regression.



## Major Projects :

AI-Based Health Diagnosis



Predict diseases (like diabetes or heart disease) using patient data.

Autonomous Vehicle Simulation



Use OpenCV and Reinforcement Learning to simulate a self-driving car.

Stock Market Prediction using LSTM



Predict future stock prices using Recurrent Neural Networks (RNN/LSTM).



## Showcase your Learning Journey

### CERTIFICATE OF INTERNSHIP



ShikshaVertex

This Certificate is proudly presented to

**ROHAN RATHORE**

In recognition of exceptional performance, dedication, and outstanding contribution during the **Internship program at ShikshaVertex**.

Your enthusiasm for learning, consistent effort, and commitment to excellence have set a remarkable example for others. Through your work, you have demonstrated creativity, professionalism, and a passion for growth that align perfectly with the values of ShikshaVertex.

We commend your achievements and wish you continued success in all your future endeavors.

Date

Signature(Academic Head)



**Certificate of Completion  
from ShikshaVertex**

Certificate of Internship  
from ShikshaVertex

### CERTIFICATE OF TRAINING



ShikshaVertex

This Certificate is proudly presented to

**ROHAN RATHORE**

In recognition of exceptional performance, dedication, and outstanding contribution during the **Internship program at ShikshaVertex**.

Your enthusiasm for learning, consistent effort, and commitment to excellence have set a remarkable example for others. Through your work, you have demonstrated creativity, professionalism, and a passion for growth that align perfectly with the values of ShikshaVertex.

We commend your achievements and wish you continued success in all your future endeavors.

Date

Signature(Academic Head)





# CONTACT US



+91-9978456702



[www.shikshavertex.in](http://www.shikshavertex.in)



2nd floor, Srivari Arcade, NGR Layout, Roopena Agrahara,  
Bommanahalli, Bengaluru, Karnataka 560068



[admin@shikshavertex.in](mailto:admin@shikshavertex.in)