



Scholar'sEdge Academy

"From Vision To Venture"

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COURSE BROCHURE

DATA SCIENCE & ARTIFICIAL INTELLIGENCE



Welcome Message

Welcome to Scholar'sEdge Academy where learning meets opportunity and potential transforms into success.

We are delighted to have you join our growing community of ambitious learners, innovators, and future professionals. At Scholar'sEdge, we believe that education should go beyond textbooks and classrooms. Our mission is to equip you with practical skills, real-world experience, and the confidence needed to excel in today's competitive professional landscape.

Transforming Aspirations into Achievements by empowering students with industry-leading skills, real-world experience, and the mindset to thrive, innovate, and lead in tomorrow's world.

Our certifications are supported by recognized quality and business standards, providing learners with credible credentials that enhance their professional profiles and demonstrate their commitment to continuous learning. These certifications serve as valuable proof of achievement and can help strengthen resumes, portfolios, and career opportunities in today's competitive job market.

At Scholar'sEdge Academy, we are committed to maintaining high standards of quality, professionalism, and industry relevance in our training programs. As part of our commitment to excellence, learners receive professionally recognized certifications that reflect their skills, dedication, and successful completion of the program.

Upon successful completion of our training programs, learners receive professionally recognized certifications that validate their skills, practical experience, and dedication to continuous growth. These credentials enhance career prospects, strengthen professional portfolios, and demonstrate industry readiness to employers worldwide.



Company Over View

Company Culture

At Scholar'sEdge Academy, we cultivate a culture of learning, innovation, collaboration, and growth. We believe education should be practical, supportive, and empowering, where every learner feels encouraged to ask questions, build confidence, and develop real-world skills.



Our History

Scholar'sEdge Academy exists to bridge the gap between academic learning and industry requirements by focusing on practical skills, confidence-building, and career readiness. Through hands-on, skill-based education, we empower learners to transform their knowledge into real-world success.

Our Mission

To empower students, graduates, and professionals with industry-relevant, practical skills through hands-on training, expert mentorship, and real-world experience, enabling them to build successful careers with confidence and competence.

The Goals

At Scholar'sEdge Academy, our goal is to bridge the gap between traditional education and industry expectations by transforming learners into confident, skilled, and job-ready professionals. We aim to provide practical, hands-on learning experiences that empower students to build real-world expertise, gain valuable industry exposure, and achieve long-

Our Value

01 Practical Learning

We believe knowledge becomes truly valuable when it is applied in real-world situations. Through hands-on training, live projects, and practical problem-solving, learners gain industry-relevant experience. Our approach ensures students develop the skills and confidence needed to succeed in their careers.

02 Integrity

We uphold the highest standards of honesty, transparency, and professionalism in everything we do. By fostering trust, accountability, and ethical practices, we create a learning environment where students can grow with confidence and credibility.

03 Continuous Growth

We believe learning is a lifelong journey. By encouraging curiosity, adaptability, and continuous skill development, we empower learners to stay relevant, embrace new opportunities, and achieve long-term success in an ever-evolving world.



Enhancing Your Learning Journey



Weekend Activities & Skill Development

Engage in interactive workshops, coding challenges, expert talks, and skill-building sessions designed to enhance your learning experience.

Develop technical expertise, confidence, leadership, and professional skills beyond the classroom



ISO & MSME Recognition

Scholar'sEdge Academy is committed to delivering quality, industry-focused education aligned with professional standards. Our ISO-backed quality practices and MSME recognition reflect our dedication to excellence, credibility, and continuous improvement. Learners benefit from trusted certifications that enhance their professional profile and demonstrate their commitment to skill development.



Internship Opportunities

Learning goes beyond the classroom at Scholar'sEdge Academy. Through our structured internship programs, students gain practical exposure to real-world projects, industry workflows, and professional environments. This hands-on experience helps bridge the gap between learning and employment while strengthening career readiness.



Learning Management System (LMS)

Our advanced Learning Management System provides students with seamless access to learning resources, course materials, assignments, project guidelines, and progress tracking tools. The LMS ensures a flexible, organized, and engaging learning experience that supports continuous growth both inside and outside the classroom.

What To Expect

What We Expect From You

At Scholar'sEdge Academy, you will experience practical, hands-on learning that prepares you for real-world challenges. Our industry-focused programs combine expert mentorship, live projects, and skill-based training to build your confidence and expertise. You will gain valuable experience, create a professional portfolio, and develop career-ready skills. Every step of your journey is designed to help you learn, grow, and succeed.

What We Expect From You

At Scholar'sEdge Academy, we expect learners to approach their journey with dedication, curiosity, and a willingness to learn. Active participation, consistent effort, and a commitment to completing projects and assignments are essential for success. By embracing challenges, seeking continuous improvement, and maintaining a positive attitude, you can make the most of every opportunity and achieve your career goals.

Success is a partnership between the academy and the learner. We expect you to be committed, proactive, and eager to learn, while taking ownership of your growth and development. Attend sessions regularly, engage actively in projects and discussions, and be open to feedback and continuous improvement. With the right mindset and dedication, you can unlock your full potential and achieve meaningful career success.



WHY CHOOSE US

TRANSFORMING POTENTIAL INTO SUCCESS

01 Industry-Focused Learning

Our curriculum is designed to align with current industry demands and emerging technologies. Learn skills that employers value and apply them in real-world scenarios.

02 Expert Mentorship & Hands-On Experience

Learn directly from industry professionals while working on practical projects and case studies. Gain the confidence and experience needed to solve real business challenges.



03 Career-Readiness with the 4+2 Model

Benefit from 4 months of intensive training followed by 2 months of internship experience. Build a professional portfolio and graduate with practical industry exposure.



Certifications & Recognition

Our commitment to quality, skill development, and industry-oriented learning helps students build a strong professional foundation that is recognized and valued by employers worldwide.



MSME

MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम
OUR STRENGTH • हमारी शक्ति

Ministry of MSME, Govt. of India



ISO Certified Organization

Committed to internationally recognized quality standards, ensuring structured learning, professional training practices, and continuous improvement in education delivery.

NSDC Skill Development Focus

Focused on developing job-ready skills, practical competencies, and employability through industry-oriented training and experiential learning.

AICTE-Aligned Learning Approach

Our training methodology is designed to support industry-relevant technical education, practical learning, and career readiness aligned with modern professional standards.

MSME Registered Enterprise

Recognized by the Government of India, promoting innovation, entrepreneurship, skill development, and industry-focused learning opportunities.

Students benefit from learning in an institution that follows recognized quality standards, industry-oriented practices, and skill development frameworks designed to enhance employability and professional growth.

Student Benefits :

- Learn in a quality-focused and professionally managed environment
- Gain industry-relevant skills aligned with current market demands
- Enhance credibility with certifications from a recognized institution
- Improve employability through practical and job-oriented training
- Benefit from structured learning, projects, and internship opportunities
- Build confidence with training that follows recognized standards

Your Journey to Success

The journey continues with internship opportunities and professional exposure, allowing you to gain valuable experience in a real work environment. By the end of the program, you will have the skills, practical experience, and confidence needed to pursue career opportunities and succeed in today's competitive job market.



Learn

Build a strong foundation through structured, industry-focused training guided by experienced mentors. Gain the knowledge and technical skills needed to excel in your chosen field.



Practice

Apply your learning through hands-on projects, assignments, and real-world problem-solving activities. Develop confidence by transforming theoretical concepts into practical solutions.



Experience

Gain valuable industry exposure through internships, mentorship, and collaborative project work. Learn professional practices and understand how skills are applied in real workplace environments.



Achieve

Graduate with a professional portfolio, recognized certifications, and job-ready skills. Step into your career with confidence, credibility, and the ability to make an impact.



DATA SCIENCE & ARTIFICIAL INTELLIGENCE

Program Structure

Duration: 6 Months (4 Months Training + 2 Months Industry Internship)

PHASE 1

PYTHON PROGRAMMING & DATA SCIENCE FOUNDATIONS

Module 1: Python Programming Essentials

Topics Covered

Python Fundamentals

- Introduction to Python
- Variables & Data Types
- Operators & Expressions
- Conditional Statements
- Loops & Iterations
- Functions & Modules

Data Structures

- Lists
- Tuples
- Sets
- Dictionaries

File Handling

- Reading & Writing Files
- CSV Processing
- JSON Handling

Object-Oriented Programming

- Classes & Objects
- Inheritance
- Polymorphism

Practical Activities

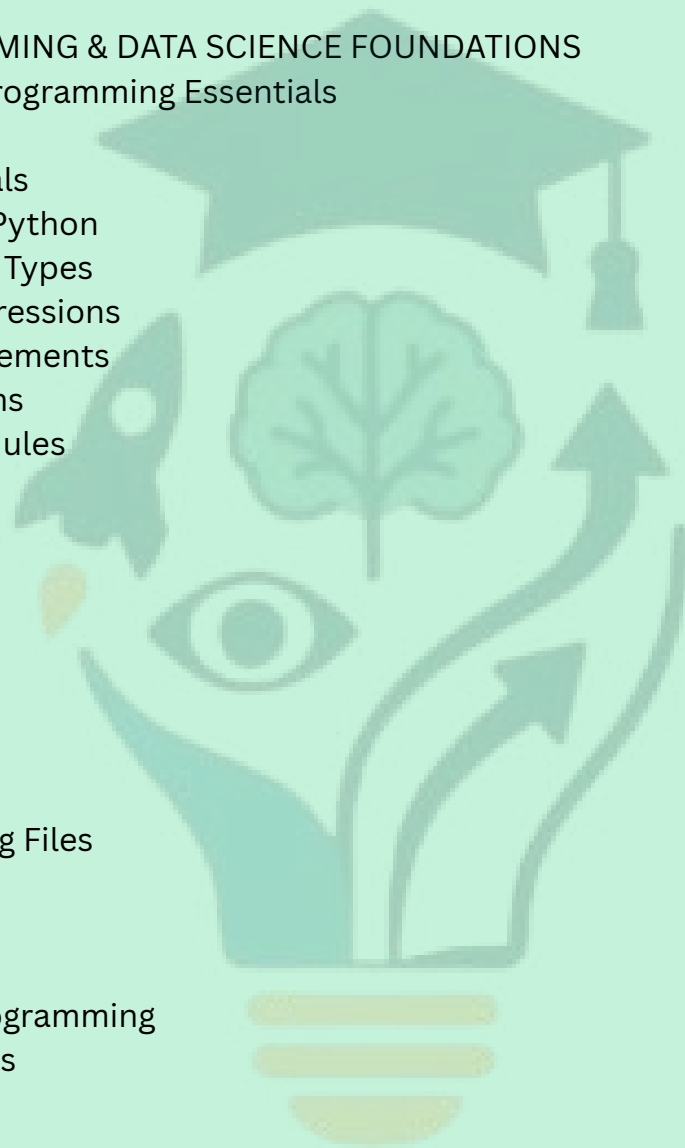
- ✓ Python Coding Challenges
- ✓ Mini Automation Projects
- ✓ Data Processing Exercises

Module 2: Mathematics & Statistics for AI

Topics Covered

Statistics Fundamentals

- Mean, Median, Mode
- Standard Deviation



- Variance
- Probability Concepts
- Normal Distribution

Data Analysis Concepts

- Correlation
- Covariance
- Hypothesis Testing
- Sampling Techniques

Mathematics for AI

- Linear Algebra Basics
- Matrices & Vectors
- Calculus Fundamentals
- Optimization Concepts

Practical Activities

- ✓ Statistical Analysis Exercises
- ✓ Business Data Interpretation

PHASE 2

DATA ANALYSIS & VISUALIZATION

Module 3: Data Analysis with Python

Topics Covered

NumPy

- Arrays
- Mathematical Operations
- Statistical Functions

Pandas

- DataFrames
- Data Cleaning
- Data Transformation
- Data Manipulation
- Missing Value Treatment

Exploratory Data Analysis (EDA)

- Data Profiling
- Pattern Recognition
- Trend Analysis
- Outlier Detection

Project

Customer Insights Analysis

Module 4: Data Visualization & Storytelling

Topics Covered

Visualization Libraries

- Matplotlib

- Seaborn
- Plotly

Visualization Techniques

- Bar Charts
- Histograms
- Scatter Plots
- Heat Maps
- Interactive Dashboards

Storytelling with Data

- Data Interpretation
- Business Presentations
- Insight Generation

Project

Business Analytics Dashboard

PHASE 3

MACHINE LEARNING ENGINEERING

Module 5: Machine Learning Fundamentals

Topics Covered

Introduction to Machine Learning

- AI vs ML vs Deep Learning
- Machine Learning Lifecycle
- Types of Machine Learning

Supervised Learning

- Linear Regression
- Logistic Regression
- Decision Trees
- Random Forest

Unsupervised Learning

- Clustering
- K-Means
- Hierarchical Clustering

Model Evaluation

- Accuracy
- Precision
- Recall
- F1 Score

Project

Customer Churn Prediction

Module 6: Advanced Machine Learning

Topics Covered

Ensemble Learning

- Random Forest
- Gradient Boosting
- XGBoost

Feature Engineering

- Feature Selection
- Feature Scaling
- Data Encoding

Hyperparameter Tuning

- Grid Search
- Cross Validation

Real-World Applications

- Fraud Detection
- Recommendation Systems
- Sales Forecasting

Project

Sales Prediction System

PHASE 4

DEEP LEARNING & COMPUTER VISION

Module 7: Deep Learning Foundations

Topics Covered

Neural Networks

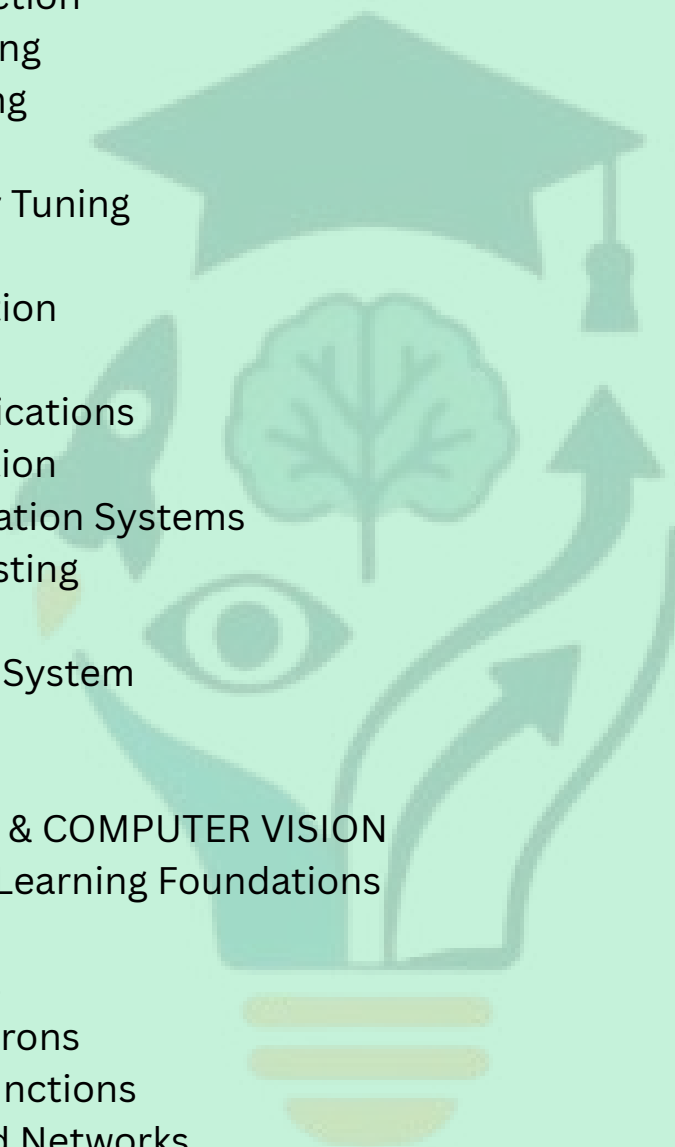
- Artificial Neurons
- Activation Functions
- Feed Forward Networks
- Backpropagation

Deep Learning Frameworks

- TensorFlow
- Keras

Model Training

- Optimization



- Loss Functions
- Model Evaluation

Project

Image Classification Model

Module 8: Computer Vision

Topics Covered

Image Processing

- OpenCV Fundamentals
- Image Enhancement
- Object Detection

Deep Learning Applications

- Face Detection
- Image Recognition
- Object Classification

Project

Smart Vision System

PHASE 5

NLP, GENERATIVE AI & LLMs

Module 9: Natural Language Processing (NLP)

Topics Covered

NLP Fundamentals

- Text Processing
- Tokenization
- Lemmatization
- Sentiment Analysis

NLP Applications

- Chatbots
- Text Classification
- Language Translation
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Project

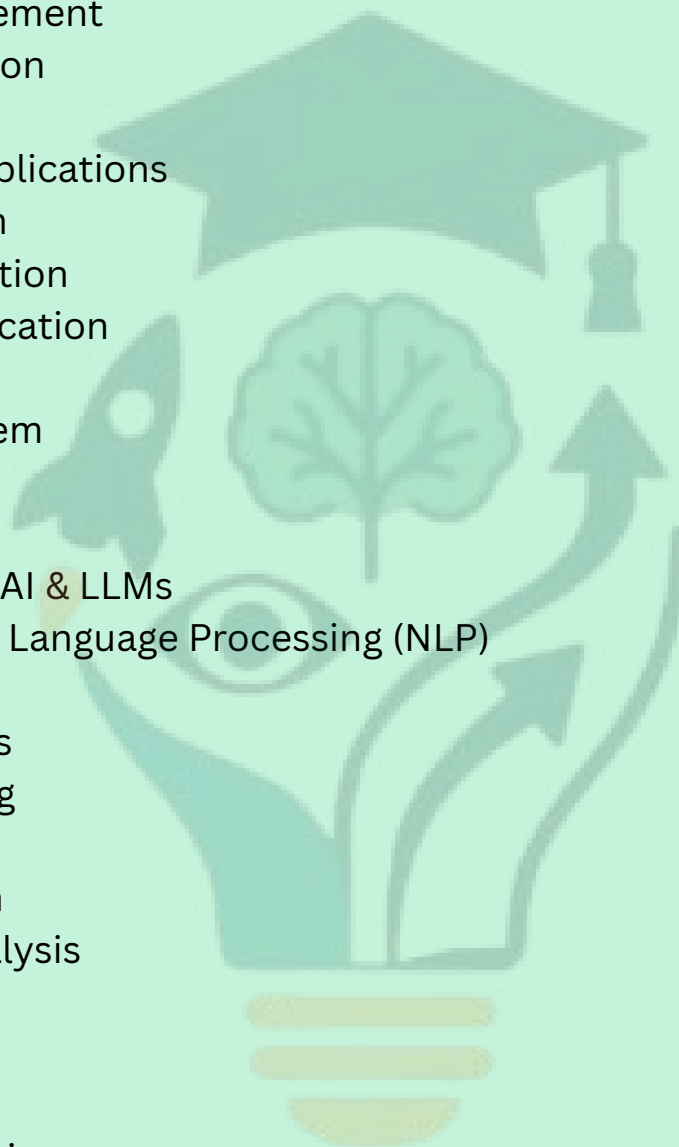
AI Chatbot Development

Module 10: Generative AI & Large Language Models

Topics Covered

Generative AI Fundamentals

- Introduction to GenAI



- Foundation Models
- LLM Architecture

Prompt Engineering

- Prompt Design
- Context Engineering
- Chain-of-Thought Prompting

LLM Applications

- ChatGPT
- Gemini
- Claude
- Perplexity

AI Content Generation

- Text Generation
- Image Generation
- AI Assistants

Project

AI Content Assistant

PHASE 6

AI AGENTS, AUTOMATION & DEPLOYMENT

Module 11: AI Agents & Intelligent Automation

Topics Covered

AI Agents

- Agent Architecture
- Multi-Agent Systems
- Autonomous Workflows

Automation Frameworks

- AI Workflow Design
- Task Automation
- Business Process Automation

Agent Development

- AI Assistants
- Knowledge Bots
- Workflow Agents

Project

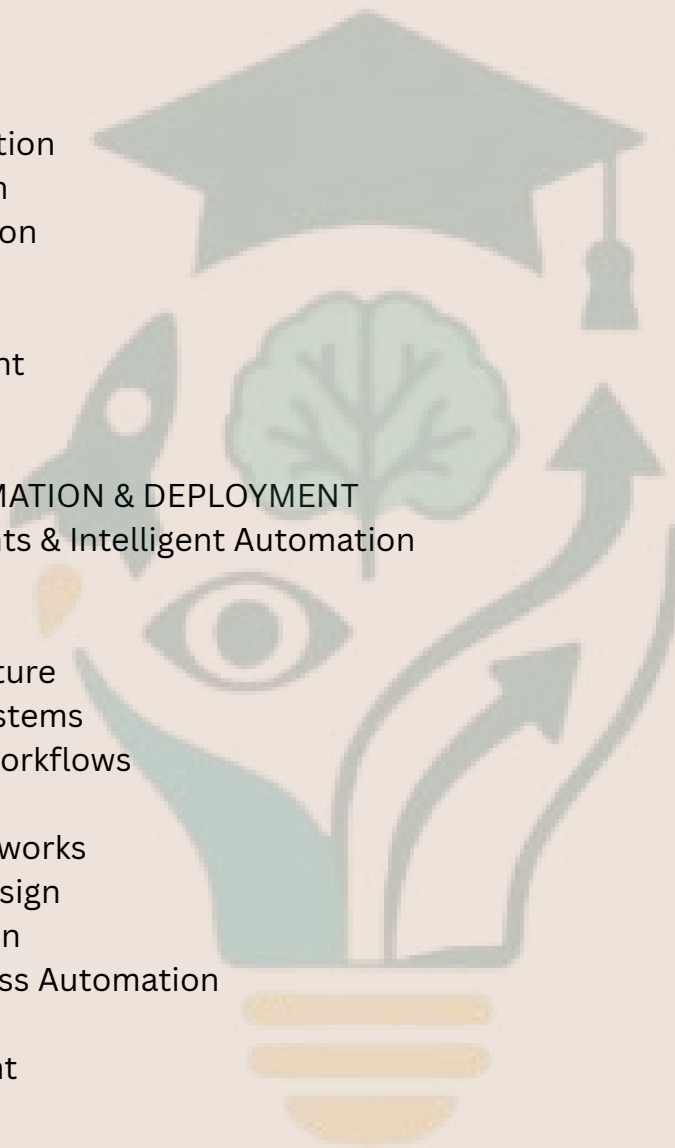
AI Productivity Agent

Module 12: MLOps & AI Deployment

Topics Covered

Model Deployment

- API Development
- Model Serving
- Cloud Deployment Basics



MLOps Fundamentals

- Model Monitoring
- Version Control
- CI/CD for AI

Deployment Platforms

- Streamlit
- Hugging Face
- Cloud AI Services

Project

Deploy an AI Application

PHASE 7

INDUSTRY INTERNSHIP (2 MONTHS)

Month 5 – AI Innovation Sprint

Activities

- Data Collection
- Data Cleaning
- Machine Learning Development
- AI Model Training
- Dashboard Development

Deliverables

- ✓ ML Model
- ✓ AI Report
- ✓ Analytics Dashboard

Month 6 – Industry Capstone Project

Activities

- End-to-End AI Solution Development
- Real-World Dataset Analysis
- AI Application Deployment
- Business Presentation

Deliverables

- ✓ Internship Certificate
- ✓ Industry Project
- ✓ AI Portfolio
- ✓ Capstone Presentation

YOUR JOURNEY TO A SUCCESSFUL CAREER STARTS HERE

At ScholarsEdge Academy, we don't just teach concepts, we build professionals. Through industry-focused training, hands-on projects, real-world internships, and expert mentorship, we prepare students to confidently step into the competitive technology industry.

Whether your goal is to become a developer, marketer, analyst, or technology professional, our structured learning approach ensures you gain the practical skills, confidence, and industry exposure needed to succeed.

Steps to Earn Your Certification

- **Complete the Training Program**

Attend and complete all course modules and practical learning sessions.

- **Submit Assignments & Assessments**

Successfully complete the required assignments, quizzes, and evaluations.

- **Build & Submit Projects**

Apply your skills by developing real-world projects and demonstrating practical knowledge.

- **Complete the Internship**

Actively participate in internship activities and fulfill all program requirements.

- **Clear the Final Evaluation**

Successfully pass the final project review or skill assessment conducted by mentors.

- **Maintain Professional Participation**

Ensure regular attendance, discipline, and active engagement throughout the program.