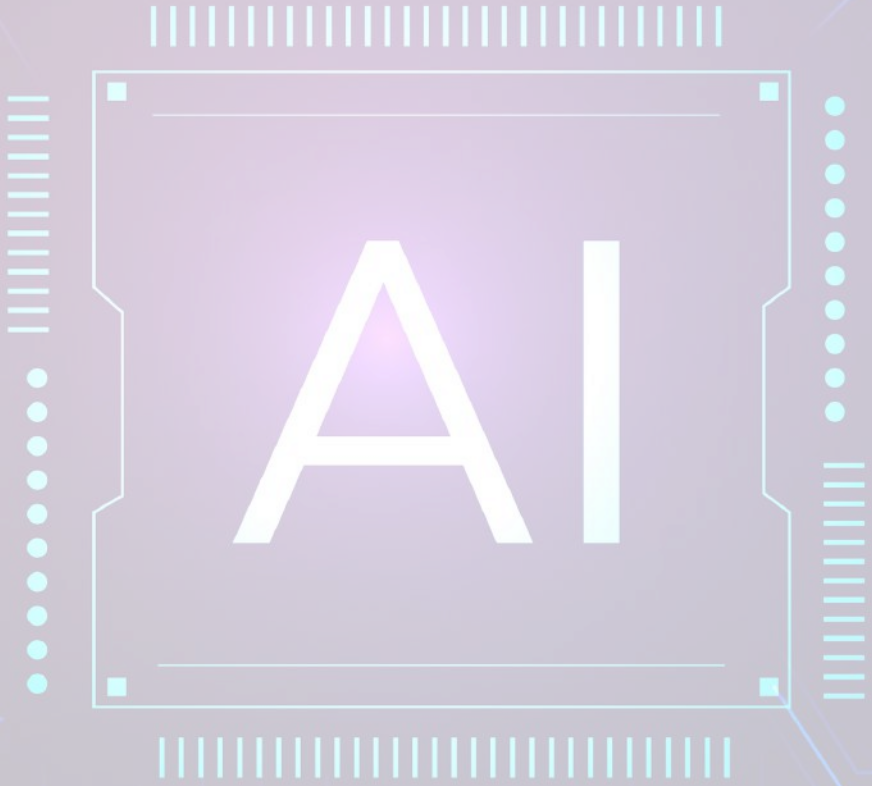
GLOW LOGICS
SOLUTIONS



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम
OUR STRENGTH • हमारी शक्ति
Ministry of MSME, Govt. of India

ISO 9001 2015 CERTIFIED

TechFest
IIT BOMBAY

About Glowlogics

Glowlogics is a **government-verified MSME and Startup India-recognized company offering ISO-certified internships. In partnership with Techfest, IIT Bombay**, & **E-cell Hydrabad** we are committed to fostering innovation and skill development, providing practical, industry-relevant expectation

Why Choose Our AI Program?

- Learn AI, ML, Deep Learning & NLP from industry experts
- Build real-world projects & gain hands-on skills
- Career support with resume prep & interview guidance
- Industry-aligned, practical, and job-ready curriculum

Program Overview

Step into the future with our Artificial Intelligence program, designed to equip you with cutting edge skills in Machine Learning, Deep Learning, Natural Language Processing, and more. Gain hands-on experience through real-world projects and learn from industry experts to build smart solutions and intelligent systems. Whether you're a beginner or looking to advance your AI journey, this program offers the perfect blend of theory and practical learning to help you thrive in the tech driven world.

Curriculum Overview

Module 1: Introduction to Python for AI

- Python Basics: Variables, Data Types, Lists, Tuples, Dictionaries
- Functions, Conditional Statements, and Loops
- Hands-on: Basic Python programs for AI tasks

Module 2: Data Handling & Visualization Libraries

- Introduction to Numpy & Pandas
- Data Cleaning and Manipulation
- Visualization with Matplotlib & Seaborn
- Hands-on: Building charts and plots with real datasets

Module 3: Math & Stats for Machine Learning

- Basic Linear Algebra: Vectors, Matrices
- Statistics: Mean, Median, Mode, Dispersion
- Probability Concepts: Central Tendency, Gaussian Distribution
- Hands-on: Data analysis using Python

Module 4: Supervised Machine Learning

- Linear & Logistic Regression
- Decision Trees and Support Vector Machines (SVM)
- Real-world Case Study Implementation using Scikit-learn

Module 5: Unsupervised Learning & Clustering

- K-Means Clustering and Elbow Method
- Distance Metrics: Euclidean & Manhattan
- Practical Project: Customer Segmentation

Module 6: Introduction to Deep Learning

- Neural Networks: Basics and Architecture
- Keras & TensorFlow for Model Building
- Real-life Application: Text Classification

Module 7: NLP & Text Processing (4 hrs)y

- Sentiment Analysis, Tokenization, Stemming
- Text Classification with Naïve Bayes
- Chatbot & Recommendation System Concepts

Module 8: CNNs & Image Analysis (Optional/Advanced)

- Grayscale vs Binary Images
- Filters, Kernels, and CNN Architecture
- Mini project: Image classification basics

75,000+ Students | 1:1 Personalized Mentorship | Taught by Industry Experts

Tools,Languages,Platforms

Python

Jupyter Notebook

Sample Projects

1. Predicting House Prices (Regression Model)

· Skills Involved: Data preprocessing, linear regression, training/testing models.
· Description: Students can use a dataset with housing features (like number of bedrooms, square footage, etc.) to predict house prices.

2. Handwritten Digit Recognition (MNIST Dataset)

· Skills Involved: Neural networks, computer vision, classification.
· Description: A simple neural network or convolutional neural network (CNN) can be used to classify handwritten digits (0-9) from the famous MNIST dataset.

3. Spam Email Detection (Binary Classification)

· Skills Involved: Natural language processing (NLP), feature extraction
(TF-IDF), classification.
· Description: Students can build a classifier to distinguish between spam and non-spam emails using machine learning algorithms like Naive Bayes or SVM.

4. Movie Recommendation System

· Skills Involved: Collaborative filtering, matrix factorization, recommendation algorithms.
· Description: Using a dataset like MovieLens, students can develop a recommendation system that suggests movies based on user preferences.

5. Chatbot with Basic NLP

· Skills Involved: Natural language understanding, rule-based or AI-based response generation.
· Description: Students can create a basic chatbot that responds to user queries using simple rule-based techniques or a basic NLP model like Bag-of-Words.

These are sample projects only. Unique capstone projects will be discussed in the live class

Certificates

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CERTIFICATION OF INTERNSHIP

Congratulation, **SAMPLE NAME**

has successfully completed WEB DEVELOPMENT Internship at Glowlogics Solutions in the month of 12 MAR 2025 to 09 MAY 2025
We appreciate [his/her/their] efforts and wish [him/her/them] success in future endeavors.

Academic Head

Ministry of MSME, Govt. of India

#startupindia

ID : WD25-GL01-I009 Issue Date : 12 March 2025

#startupindia

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Ministry of MSME, Govt. of India

CERTIFICATE

OF COURSE COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

SAMPLE NAME

has successfully completed Web Development certification with Grade A+ from Glowlogics Solutions and has proven his/her competency with utmost dedication and promise

7 April 2025
Date

Academic Head

Certificate ID: WD25-GL01-C011

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Get Started Today!

Contact Us:
Ready to take your career to the next level?

Contact us to learn more about our courses, flexible payment plans, and how we can help you achieve your career goals.

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