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- ✓ Current Industry Syllabus
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## OUR TRAINEES GOT PLACED IN



.....Still  
Counting

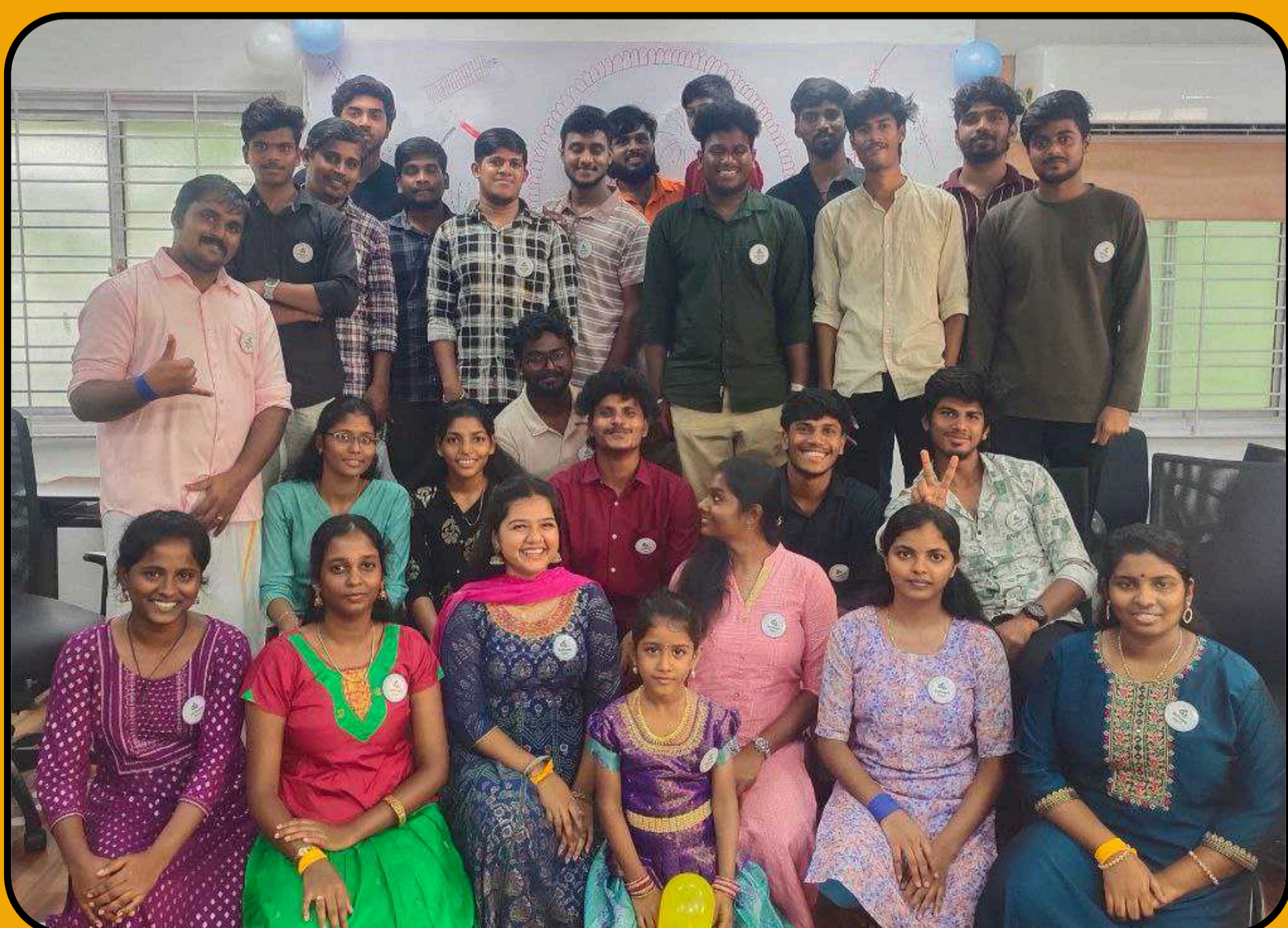


## ABOUT US!

Payilagam, the **Best Software Training Institute In Chennai With 100% Placement Guarantee**, has been shaping successful IT careers with over **13+ Years Of Experience**. we provide real-time, industry-focused training led by **Experienced Professionals** from the IT industry, ensuring you gain practical skills that companies actually need. Our courses include **HTML, CSS, JavaScript, React, Java, Python, PostgreSQL, GitLab, And WordPress**, designed to make you job-ready from day one. At payilagam, we don't just teach, we guide you step-by-step towards your career with our **100% Job Guaranteed Courses**, helping you confidently step into the it industry.



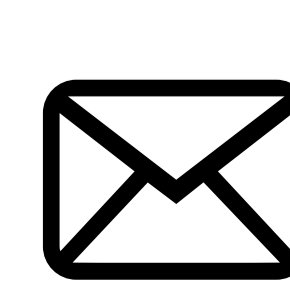
## OUR INFRASTRUCTURE



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# OUR LATEST PLACEMENTS



Megha **BE AI (2025)**

ML DATA ASSOCIATE ROLE 1



Sasireka **MSc. CS (2025)**

ASSISTANT SYSTEM ENGINEER



Divya Bharathi **BE ECE (2026)**

SOFTWARE ENGINEER



Ramya **B.E. CSE (2025)**

DATA ANALYST



Vidhya Varshini  
**B E Aeronautical (2025)**

WEB DEVELOPER



Deenadhayalan **BSc CS (2025)**

TECHNICAL SUPPORT ENGINEER



Dharshini E **B.E CSE (2025)**

FULL STACK DEVELOPER INTERN



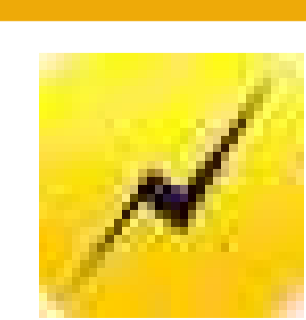
Vimala G **BE ECE (2016)**

SOFTWARE ENGINEER



Ramesh **B.Com (2025)**

SOFTWARE ENGINEER



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# OUR LATEST PLACEMENTS



Sathish **MSc (2023)**

SOFTWARE ENGINEER



Ranjith **BSc Physics(2021)**

ANGULAR DEVELOPER



Bharath **MSc Maths ( 2021)**

ANGULAR DEVELOPER



Iyappan **MCA (2025)**

SOFTWARE ENGINEER



Bhuvana Sri R **B.E CSE (2025)**

SOFTWARE ENGINEER



Pavithra **MCA (2025)**

NETWORK ENGINEER



Keerthika **MCA (2025)**

REACT DEVELOPER



Vasanth S **B.E Mech ( 2021)**

SOFTWARE ENGINEER



Gayathri **BE CSE (2025)**

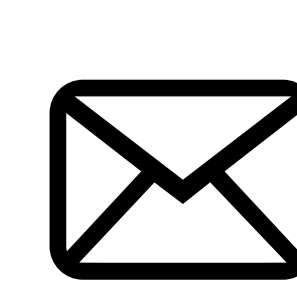
SOFTWARE ENGINEER



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# OUR LATEST PLACEMENTS



Vadivu Lakshmi G  
**MSc Chemistry(2018)**

FULL STACK DEVELOPER INTERN



Ponvel M **BE CSE (2024)**

SOFTWARE ENGINEER

Thondrin  
Information  
Solutions



Uthaya **ME (2015)**

ANGULAR DEVELOPER



AJAY RAJA **B.Tech CSE (2025)**

DEVOPS ENGINEER INTERN



Ashok **BE ECE (2025)**

DATA ANALYST INTERN



Manikandan **B.Sc (2025)**

DATA ANALYST



Vigneshwaralingam  
**B.E CSE (2025)**

SOFTWARE ENGINEER



Swetha.P **B.Sc CS (2025)**

SOFTWARE ENGINEER INTERN



Kavya S **BE CSE (2025)**

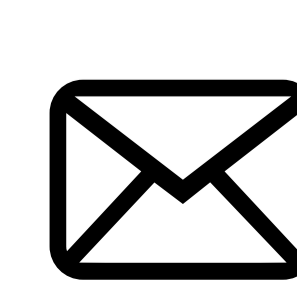
SOFTWARE ENGINEER INTERN



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# PYTHON FOR GEN AI

## Module 1: Python Introduction, Installation

- Python Introduction
- Download Python, Installing Python
- Verify The Installation
- Install A Text Editor Or IDE (Optional)

## Module 2: Data Types

- Numeric Types
- Text Type
- Boolean Type
- None Type

## Module 3: Operators

- Arithmetic Operators
- Comparison Operators
- Logical Operators
- Assignment Operators
- Membership Operators
- Identity Operators

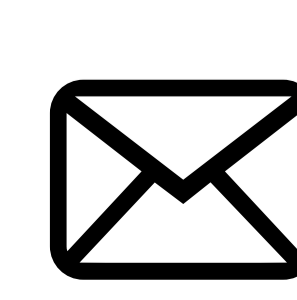
## Module 4: Functions

- Function Call
- Return Statement
- Types Of Parameters - Default Parameters, Variable Length Arguments
- Variable-Length Argument Lists, Lambda Functions, Recursion

## Module 5: Flow Control Statements

- **Looping Statements:** for, while
- **Conditional Statements:** if, elif, else
- **Exception Handling:** try, except, finally
- Pass Statement

**Project:** *Calculator Application*



# PYTHON FOR GEN AI

## Module 6: List

- Creating A List
- Accessing Elements
- Slicing
- Modifying Elements
- Adding Elements
- Removing Elements
- Sorting: Bubble Sort, Searching: Binary Search

*Project: Phone Book Application*

## Module 7: Tuple

- Creating A Tuple
- Accessing Elements
- Slicing
- Tuple Packing And Unpacking
- Immutable Nature

*Project: Inventory Management Application*

## Module 8: Set

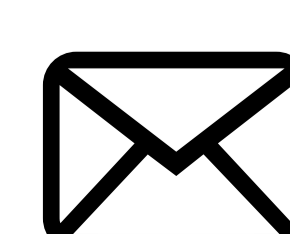
- Creating A Set
- Accessing Elements, Adding Elements, Removing Elements
- Set Operations
- Other Set Operations

*Project: Unique Words From A Book*

## Module 9: Dictionary

- Creating A Dictionary, Accessing Values, Modifying Values
- Adding New Key-Value Pairs, Removing Key-Value Pairs
- Dictionary Operations, Nested Dictionaries

*Project: Student Management System*



# PYTHON FOR GEN AI

## Module 10: Package

- Creating A Package
- Importing Modules From A Package
- Importing The Whole Package
- Subpackages

## Module 11: Python OOPs Introduction

- Class, Object
- Attributes And Methods
- Encapsulation
- Inheritance
- Polymorphism
- Abstraction

## *Project: Employee Management System*

## Module 12: Type Of Methods

- Instance Methods
- Class Methods
- Static Methods
- Special Methods (Magic Methods Or Dunder Methods)

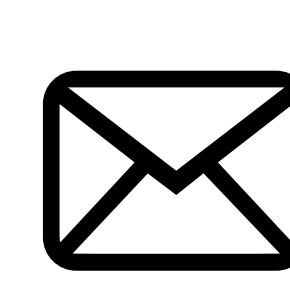
## Module 13: Exception Handling

- Try-Except Block
- Handling Specific Exceptions
- Else And Finally Blocks
- Raising And Custom Exceptions

## Module 14: File Handling

- Opening, Reading, Writing From A File, Appending To A File
- Using With Statements, File Modes
- Exception Handling For File Operations, Working With Paths

## *Project: CSV File Parser Application*



# PYTHON FOR GEN AI

## Module 15: Regular Expression

- Basics Of Regular Expressions
- Using Regular Expressions In Python

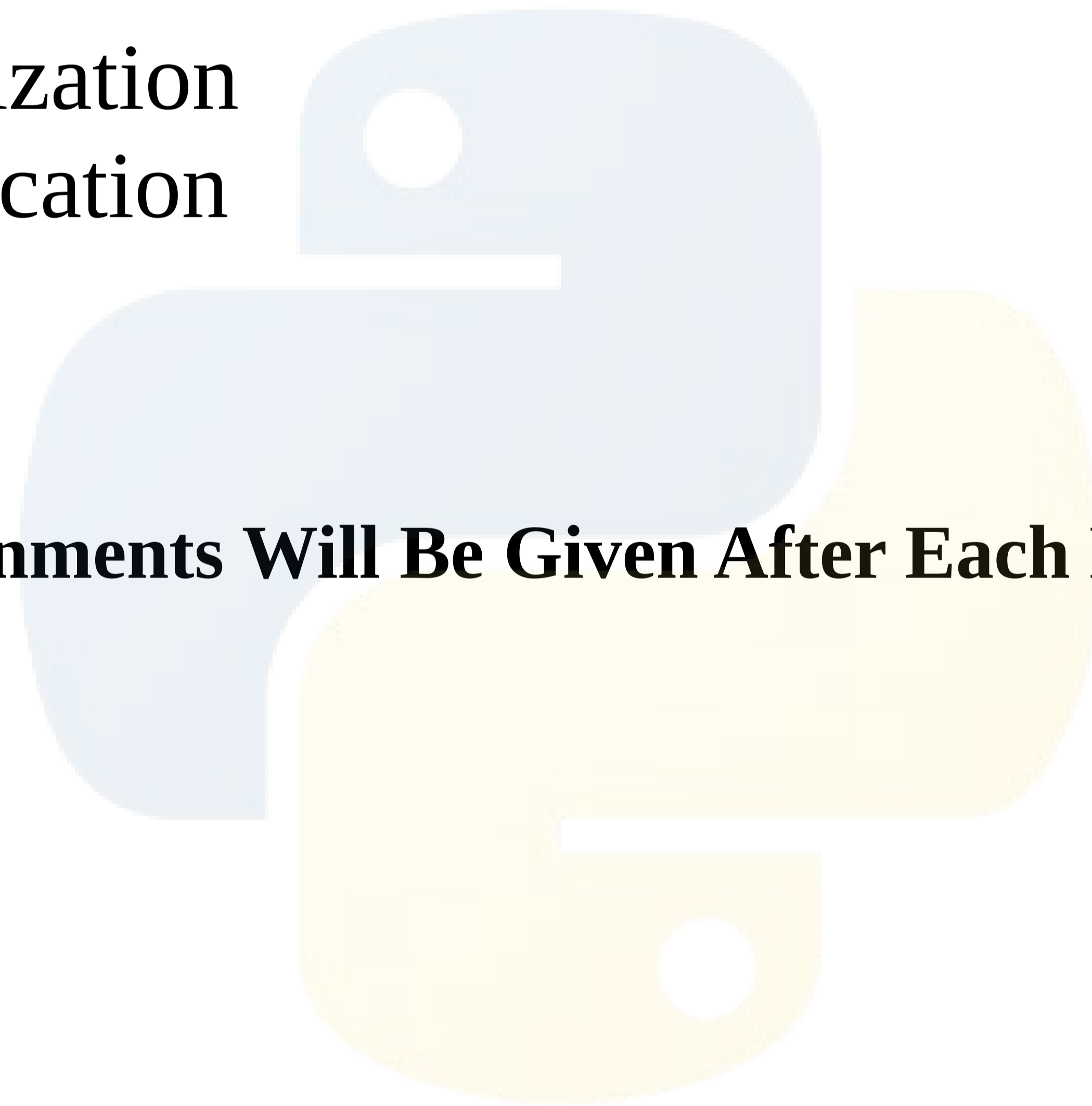
### **Projects:**

1. *Email Validator*
2. *Mobile Number Extractor*
3. *Password Validator*

## Module 16: Multithreading

- Creating Threads
- Thread Synchronization
- Thread Communication
- Daemon Threads

**\*\*\*Assignments Will Be Given After Each Module\*\*\***



# AI, ML & GEN AI

## Module 1: AI, ML & GenAI Foundations

- AI Vs ML Vs Deep Learning, What Is Generative AI?
- Supervised Vs Unsupervised Learning
- NLP Basics (Tokenization, Embeddings)
- Real-World AI Vs GenAI Use Cases

### *Project: Sentiment Analysis (Classical NLP)*

## Module 2: Deep Learning Essentials

- Neural Networks Basics
- Forward & Backpropagation
- RNN Vs CNN (Concept Level)
- Limitations Of Traditional DL
- Why Transformers Replaced RNNs

## Module 3: Transformers & LLMs

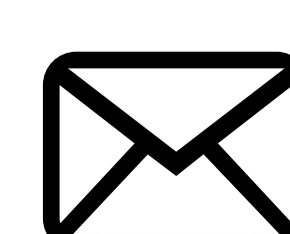
- Attention Mechanism (Core Idea)
- Transformer Architecture (Encoder-Decoder)
- BERT Vs GPT Vs T5
- Tokens, Embeddings, Context Window
- Fine-Tuning Vs Prompting

### *Project: Hugging Face Inference Demo*

## Module 4: Generative AI Core Concepts

- What Is LLM Internally (Simplified)
- Text, Image, Audio Generation Overview
- GANs Vs Diffusion Models (High-Level)
- **Use Cases:**
  - Content Generation
  - Automation
  - Coding Assistants

### *Project: Text Generation Using Pretrained Model*



# AI, ML & GEN AI

## **Module 5: Prompt Engineering**

- Prompt Design Fundamentals
- Zero-Shot, Few-Shot, Chain-Of-Thought
- Role-Based Prompting
- **Prompt Templates For:**
  - Chatbots
  - Business Use Cases
- Prompt Debugging Techniques

### ***Project: Real-World Prompt Building***

## **Module 6: OpenAI & LLM APIs**

- Working With GPT APIs
- Function Calling
- Output Structuring (JSON Responses)
- Token Limits & Cost Optimization, Streaming Responses

### ***Project: Build AI Chatbot Using API***

## **Module 7: LangChain & AI Agents**

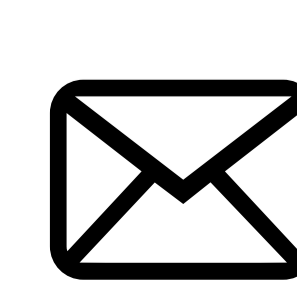
- LangChain Basics, Chains, Tools, Memory
- AI Agents (Autonomous Workflows)
- RAG (Retrieval Augmented Generation)
- Vector Integration

### ***Project: Build Document-Based Chatbot***

## **Module 8: Hugging Face & Open Models**

- Pretrained Models Usage
- Tokenization & Inference
- Intro To Fine-Tuning
- Working With Pipelines

### ***Project: Build Sentiment Classifier***



# AI, ML & GEN AI

## Module 9: Vector Databases

- Embeddings Concept
- FAISS, Pinecone, Chroma
- Semantic Search
- RAG Architecture

### *Project: Chat With PDF System*

## Module 10: Real-Time Projects

- Resume Analyzer (LLM)
- AI Chatbot (FAQs)
- Chat With PDF (RAG)
- AI Blog Generator
- Text-To-Image App

### *Goal: Job-Ready Portfolio*

## Module 11: MLOps & Deployment

- Streamlit & Gradio Apps
- Deploying AI Apps (Cloud Basics)
- Hugging Face Spaces
- Docker Basics

### *Project: Deploy GenAI App Live*

## Module 12: Responsible AI

- Hallucination Issues, Bias In LLMs
- Prompt Injection Risks, AI Safety & Guardrails, Copyright & Ethics

### *Project: Analyze Model Errors*

## Module 13: Career & Industry Readiness

- Resume Building (AI Projects), GitHub Portfolio Setup
- Interview Preparation, LinkedIn Optimization



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## Connect With Us!

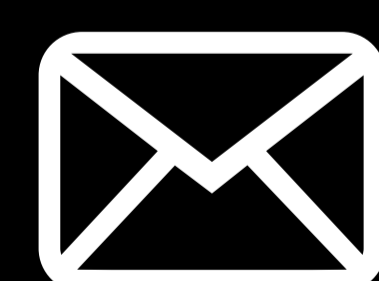


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