

STREAMWAY TECHNOLOGIES PVT LTD

Ignite your intelligence

Key Takeaways:

- Logical Thinking
- Problem Solving Skills
- Production Level Project Implementations
- Full Life Cycle of Project Workflow (Workspace Management, Automatic Triggers, Documentation)
- GitHub Portfolio
- Mock Interviews – With Working Professionals
- Resume Preparation – Recruiters and Hiring Managers
- Free workshops Workshops – How to prepare AI Readiness, Industry Exposure, Career Guidance
- Impact of AI on developers and how to work with AI and build the portfolio

Durations and Timings:

- Monday to Friday
- 5:00PM to 7:00PM offline and online
- Workshops on Every Alternate Saturday (Projects building, Doubts clearance)

Programming with Python

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Module 1:

What is programming?

How does programs execute?

Types of languages (Machine code, Low Level and High-Level languages)

Why we need to learn Python?

Python Features & History

Python Installation & Components

Introduction to command prompt

Identifiers

Variables

Keywords

Data Types (int, float, str)

Operators

Conditions (if, if else, if elif else)

Common functions(print(),help(), dir(), len(),inout(), type(),id())

Program execution flow (Python interpreter & PVM)

Looping Statements (for, while)

Control Flow Statements (break, pass, continue)

Type Casting

Python Objects (Why everything is object in python)

Lists

Tuples

Dict(Dictionary)

Set

Functions



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Modules

Packages

Module2:

Anonymous Functions, Higher Order Functions, Closures.

File Management (csv, excel, text files, binary files)

Context Managers

Os, sys, pathlib, datetime, dateutil, shutil, random,

Decorators

Generators

Logging

Exception Handling

Database Connectivity (Sqlite, MySQL)



Module3:

Object Oriented Programming (Classes, objects, inheritance, Polymorphism, Abstraction, Encapsulation)

Multi-threading

Asynchronous Programming

Collections, Requests, sockets

json

Web Application Development

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Module1:

Introduction to Web

History of Web

WWW (WebServer, HTTP, Web Browser, URL)

Introduction to HTML

Tags vs elements

Headings

Paragraphs

Links

Tables

Images

Forms

Buttons

Semantic Elements

Attributes



Module 2:

Introduction to CSS

Stylesheets

Basic Principles of designing the web page

How to select an HTML element and Types of Selectors

Text

Background

Fonts

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Positions

Blocks vs Inline

Display, visibility

Transitions

Animations

Layouts(Flex and Grid)

Media Queries

Module3:

Introduction to Javascript

Integrate Javascript with Web pages

Variable, keywords

Data Types (Primitives vs Non Promitives)

Operators

Numbers

Undefined

Null

String

Arrays

Objects

Conditional Statements

Looping Statements

Control Flow statements

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ES6 Modules

DOM

Promises

Json

Event Loops

Asynchronous Programming

Browser API (Premise, m Session Storage, Local Storage)

Database Management System



What is Data?

Data vs Information

Importance of Data

Database vs DBMS

RDBMS

Tables

Relationships

Normalization

Data Modeling

SQL

Create Databases, Tables

Insert and Update the Data

Delete the Data

Querying the Data (Select)

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Aggregations Functions

Group By and Having

Strings, numbers, date

Sub Queries

CTE

Window Functions

Index

DJANGO

Introduction to Django web server

Framework vs Library

MVT Architecture

Project Creation

Django commands

Project Structure (Project vs Applications, settings file, urls file and Admin Portal)

Templates

Models

Function Based Views

Forms, Model Forms

Jinja Templating languages

Jinja Tags

User Management (User creations, Authentications and Authorization, Groups, permissions)

Class Based Views

ORM

Queryset API

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Custom Jinja tags

Customizing the Admin Panel

Media File managements

Static Files Managements

Json Response

Decoarators

Transaction Management

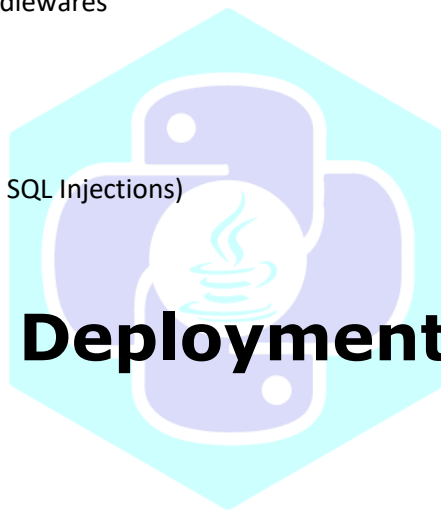
Middlewares and Custom Middlewares

Custom Commands

Signals

Security Standards (CSRF, XSS, SQL Injections)

Message Framework



Deployment:

Git and GitHub

Git Actions

CI/CD Pipelines

Docker

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Machine Learning Development (Industry-Oriented)

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Machine Learning is the process of building applications that learn patterns from data and make intelligent predictions without being explicitly programmed.

What You Will Learn

- Machine Learning Fundamentals
- Data Preprocessing & Feature Engineering
- Model Training & Evaluation
- Classification & Regression Algorithms
- Model Saving & Deployment
- Integration with Python & Django
- Real-Time Machine Learning Project

Development Workflow

1. Collect Dataset
2. Clean & Preprocess Data
3. Analyze & Visualize Data
4. Train Machine Learning Models
5. Compare Model Performance
6. Select the Best Model
7. Save the Trained Model
8. Integrate with Django
9. Test & Deploy the Application

Algorithms Covered

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- Linear Regression
- Logistic Regression
- Decision Tree
- Random Forest
- Support Vector Machine (SVM)
- K-Nearest Neighbors (KNN)
- Naive Bayes

Tools & Libraries

- Python
- NumPy
- Pandas
- Matplotlib
- Scikit-learn
- Joblib/Pickle



Outcome

By the end of the training, you will be able to develop, train, evaluate, and deploy Machine Learning models in real-world web applications using Python and Django.

Includes: One complete industry-level Machine Learning project with source code, documentation, and deployment guidance.

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