PYTHON PROGRAMMING COURSE

LEARN SKILLS

BUILD MODELS

INNOVATE WITH AI!

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Welcome To Python Programming Course At Learn 2 Dev!

This course is designed to take you from a beginner to an advanced Ai Developer. Over the next 3 Months, you will learn everything you need to know about Python Programming, Machine Learning and Advanced Model Development including SIM, LLM, Hugging Face (Transformers Library) With Datasets.

Why Learn Python Programming?

→ **High Demand:**
Python is the most popular programming language for Artificial Intelligence.The AI industry is projected to grow to $1.8 trillion by 2030, creating millions of job opportunities.

→ **Versatility**:
Python is used in web development, data Science, automation and AI making it a must-learn skill.

→ **Creative Expression:**
Build intelligent systems, analyze data and create AI-powered applications.

→ **Diverse Opportunities:**
Skills learned can be applied to roles like Data Scientist, Machine Learning Engineer, AI Researcher and many more.

→ **Portfolio Building:**
Hands-on projects will help you build a portfolio to showcase your skills to potential employers or clients.

Course Overview:

Duration:

3 Months

Structure:

- **4 Weeks:** Classes
- **6 Weeks:** Project Work
- **2 Weeks:** Freelancing and Client Acquisition

Course Goals

By completing this course, you will gain a comprehensive understanding of Python Programming. Master Machine Learning concepts and techniques.Learn to develop and fine-tune SLMs,LLMs and Hugging Face Pretrained Models.By working with Kaggle Datasets to solve real-world problems. Acquire the skills to work as a freelance AI developer or pursue opportunities in the AI industry.

Detailed Course Content:
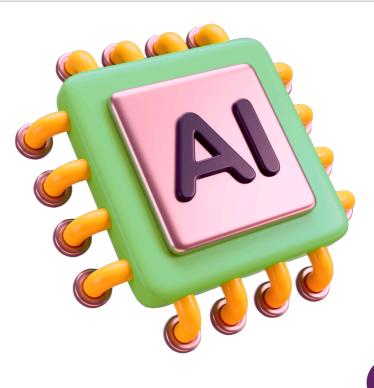
4 Weeks : Classes

Week 1: Introduction

- **Steps to Become a Python Developer:** Overview of python's applications in AI and Machine Learning.

- **Setting Up Python:** Installation of Python,Jupyter Notebook and essential libraries (NumPy, Pandas, Matplotlib).

- **Python Basics:** Variables, Data Types and Operators.

- **Control Structures:** If-else, loops, and switch-case.

- **Functions:** Defining and using functions, lambda functions.

- **Data Structures:** Lists, Tuples, Dictionaries and Sets.

Object-Oriented Programming(OOP)

- **Basics of OOP:** Advanced Object-Oriented concepts.

- **File Handling :** Reading and writing files in Python.

What is Machine Learning:

- **ML Workflow:** Data collection, preprocessing, model training and evaluation.

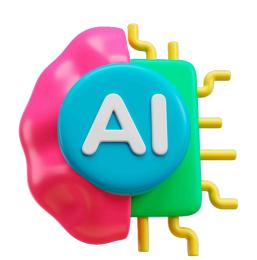- **Libraries:** Introduction to Scikit-learn, TensorFlow and PyTorch.

Week 2: Supervised Learning

- **Regression:** Linear Regression, Polynomial Regression.
- **Classification:** Logistic Regression, Decision Trees, Random Forests.

Week 3 : Unsupervised Learning

- **Clustering:** K-Means, Hierarchical Clustering.
- **Dimensionality Reduction:** PCA, t-SNE

Week 4: Deep Learning

- **Deep Learning:** Basics of Deep Learning.
- **Natural Language Processing(NLP):** Text Preprocessing and Sentiment analysis.

- **Introduction to Hugging Face:** Pretrained models and transformers.
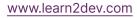
6 Weeks: Project Work

Chatbot Development in Python

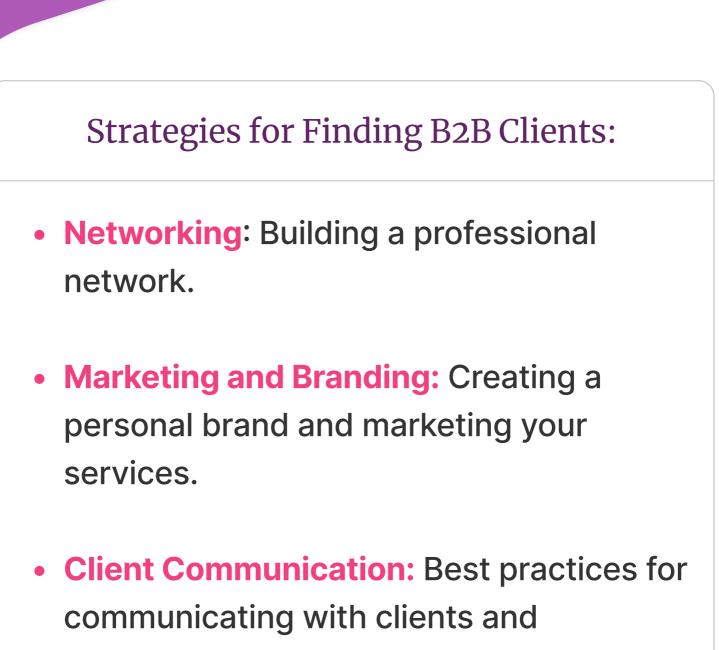- **Concept Development:** Brainstorming and planning a chatbot using NLP and Hugging face Pretrained Models.

- **Design and Prototyping:** Creating project plan and initial prototypes.

- **Development:** Implementing the chatbot using Python, TensorFlow and Hugging Face.

- **Testing and Iteration:** Debugging and improving chatbot.

- **Final Project Submission:** Presenting the completed chatbot.

2 Weeks: Freelancing and Client Acquisition

Introduction to Freelancing Platforms:

- **Upwork and Fiverr:** Setting up profiles, tips for standing out, and finding game development gigs.

- **Creating Attractive Profiles:** How to showcase your skills and projects effectively.

Strategies for Finding B2B Clients:

- **Networking**: Building a professional network.

- **Marketing and Branding:** Creating a personal brand and marketing your services.

- **Client Communication:** Best practices for communicating with clients and managing projects.

Benefits of the Course

Skill Development

Gain expertise in Python, Machine Learning and AI model development.

Career Opportunities

Prepare for roles such as Data Scientist , ML Engineer , or Ai Developer.

Portfolio Building

Create a portfolio of projects to showcase your skills to potential employers or clients.

Testimonials

"I have finished my first year of college attending Lehigh University with the intention to graduate with a computer science degree. Currently I am doing military service, but intend to go back to college after my services.
I never knew what the idea and concept of coding was before I was taught by Mr. Faiz-Jillani. Teachings of Mr. Faiz opened my world to coding and indeed it was an exciting experience. Mr. Faiz explained coding in a way that made the students wanting to learn more and have fun. I remember we all were eager to learn and was very happy when our next class was with Mr. Faiz."

David Joon-Kyun Hwang

Enrollment Information:

How to Apply:

- **Visit our website** and fill out the application form.
- Submit required documents and application fees.

Course Fees:

- **Total Course Fee: PKR** 60,000
- **Registration Fee: PKR** 2000 (non-refundable)

We have a limited number of seats available for this course so early registration is encouraged.

Fee Structure

We offer a flexible fee structure to make the payment process easier for our students. The payment structure is as follows:

Payment	Amount(PKR)	Due Date
Registration Fee	2,000	Upon Registration
Initial Payment	20,000 1st Month fee	After 1st lecture
Total Initial Payment	22,000	
2nd Installment	20,000	Start of Month 2
3rd Installment	18,000	Start of Month 3
Total Fee	60,000	3 Months

Notes:

→ **Class Timing:**

The regular classes are held from **Monday to Saturday** each week.

→ **Project Work:**

During the project phase, students from both sections are required to work on their projects for **2 hours daily.** During the project phase, students will work in groups and each group will collaborate to complete their assigned tasks efficiently, ensuring teamwork and effective project execution.

Conclusion:

We are excited to help you start your journey in game development. Enroll now and take the first step towards becoming a professional Python developer!

Contact Information:

For further inquiries, please contact us at

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