AiML
Campus
Human Intelligence
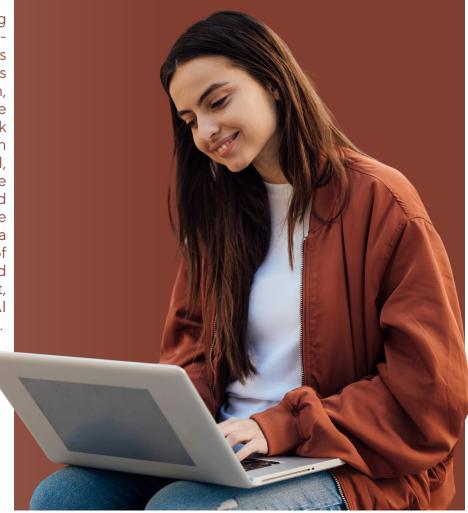Meets Artificial
Learning Intelligence

2.233 | June IAP 2024

Full Stack Development Using Generative Ai

6 Month's Programme
6 Month's Internship

Full Stack Development using Generative AI, where cutting-edge technology meets versatile expertise. In this specialized program, participants delve into the fusion of Full Stack Development principles with the power of Generative AI, unlocking limitless creative potential and innovation. Led by seasoned professionals, the curriculum encompasses a comprehensive spectrum of skills, spanning frontend and backend development, database management, and AI integration.

www.aimlcampus.com

Human Intelligence Meets Artificial Learning Intelligence Welcome to AiML Campus School of Machine Learning, where innovation meets education! Our one-year

Specialization program offers a unique blend of comprehensive learning and practical experience, tailored for highly motivated individuals with a passion for Machine Learning.

Affiliated And Member:

Supported By
Stanford University
Human Centered
Artificial Intelligence

Member
AiML Campus's
Commitment to
Technical Excellence
through AICTSD
Recognition

Affiliated
Michigan Association for
Computer Users in
Learning (MACUL)
partnered by AiML Campus

MUMBAI

First International Financial
Level 1 & 3A, First International Financial
Centre, Plot Nos. C-54 & C-55 G Block Road,
Bandra Kurla Complex, Bandra East, Mumbai,
Maharashtra 400051, India

BANGALORE

Helios Business Park
Level 6, Tower E & Level 10, Tower C, Helios
Business Park Wing C, No. 150 Outer Ring Road,
Kadubeesanahalli, Bangalore, Karnataka 560103,
India

AiML Campus

Human Intelligence Meets Artificial Learning Intelligence

OUR CORE TOPICS IN
FULL STACK DEVELOPMENT USING GENERATIVE AI

1

Fundamentals of Programming

Basics of Java, Object-Oriented Design, Java Project Submission, Advanced Java Concepts, Exception Handling in Java, Java Collections Framework, Multithreading in Java, Java I/O (Input/Output), Database Connectivity with JDBC (Java Database Connectivity), GUI (Graphical User Interface) Development in Java, Networking in Java, Java Servlets and JSP (JavaServer Pages), Java Persistence API (JPA) and Hibernate, Spring Framework in Java Development

2

Data Structures and Algorithms

Algorithms Analysis and Bit Manipulation, Arrays and Linked Lists, Stacks and Queues, Searching and Sorting, Sets and Dictionaries, Trees and Graphs, Dynamic Programming, Greedy Algorithms, String Manipulation and Pattern Matching, Recursion and Backtracking

3

Introduction to Generative AI

Understanding Generative AI, Applications of Generative AI, Generative Adversarial Networks (GANs), Variational Autoencoders (VAEs), Deep Convolutional Generative Adversarial Networks (DCGANs), Conditional Image Generation, Text Generation with Language Models, Hands-on Project: Implementing a Simple Generative AI Model

4

Full Stack Development Integration

Integrating Generative AI into Frontend Development, Integrating Generative AI into Backend Development, Building Intelligent APIs with Generative AI, Project: Developing a Full Stack Application with Generative AI Integration

5

Advanced Topics in Generative AI

Attention Mechanisms in Generative Models, Style Transfer and Image-to-Image Translation, Super-Resolution and Denoising, Ethical Considerations in Generative AI, Attention Mechanisms in Generative Models, Style Transfer and Image-to-Image Translation, Super-Resolution and Denoising.

6

Capstone Project in Full Stack Development Using Ai

Attention Mechanisms in Generative Models, Style Transfer and Image-to-Image Translation, Super-Resolution and Denoising, Ethical Considerations in Generative AI, Transfer Learning in Generative Models, Multi-Modal Generative Models,