



## HERE AND NOW AI – Artificial Intelligence Research Institute

### Program Prospectus: Full Stack AI Developer Program (Beginner to Advanced)

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#### About HERE AND NOW AI

HERE AND NOW AI – Artificial Intelligence Research Institute, a pioneering venture under the visionary leadership of Ruthran Raghavan (CEO & Chief AI Scientist) and Deepti Balagopal (COO), is a dynamic institution dedicated to revolutionizing AI education and research in India. HERE AND NOW AI is a full-fledged AI organization focused solely on artificial intelligence, full stack development, and AI-driven industry applications. Our institution is committed to making advanced artificial intelligence learning accessible, industry-aligned, and future-ready.

With a mission to build a fully autonomous AI Professor, HERE AND NOW AI is spearheading education innovation through immersive, practical, and career-oriented learning experiences. We are not just teaching AI — we are building the future with it.

**Balaji Kamalakannan**, CTO of HERE AND NOW AI, is a senior tech professional with expertise in DevOps, MLOps, Full Stack Development, and AI Engineering. His strategic leadership and technical excellence play a pivotal role in the architecture of our learning platforms and AI solutions.

**Nixon Ebenezer**, Head of IoT & Robotics at HERE AND NOW AI and CEO of TechKnots, brings deep specialization in embedded systems and robotics. He leads innovation in intelligent systems and automation, shaping the future of AI-integrated IoT.

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#### Program Overview: Full Stack AI Developer

Our flagship program is meticulously designed to take learners from **absolute beginners** to **industry-ready full stack AI professionals**. The program blends **software engineering** with **cutting-edge AI and Generative AI technologies**, focusing heavily on real-world applications and deployment.

**Mode of Delivery:** Online & Offline (Hybrid supported)

**Duration:**

- **Weekday (Online):** 6 Months
- **Weekday (Offline):** 4 Months
- **Weekend (Online/Offline):** 7 Months

## Timings & Mode Table

Mode	Schedule	Timing	Duration
Online Weekday	Morning	6:00 AM – 8:00 AM	6 Months
Online Weekday	Evening	7:00 PM – 9:00 PM	6 Months
Offline Weekday	Morning (In Person)	10:00 AM – 1:00 PM	4 Months
Offline Weekday	Afternoon (In Person)	2:00 PM – 5:00 PM	4 Months
Weekend (Online/Offline)	Saturday & Sunday	10:00 AM – 1:00 PM	7 Months

## Program Modules & Curriculum Depth

### Module 1: Python Programming & Software Engineering

- Python from scratch (variables to OOPs)
- Git, GitHub, Version Control
- Python libraries: NumPy, Pandas, Matplotlib
- Unit testing and debugging

### Module 2: Front-End Development

- HTML5, CSS3, JavaScript (ES6+)
- React.js fundamentals
- DOM Manipulation & Responsive Design
- UI/UX Design Basics

### Module 3: Back-End Development

- Python with Django
- REST APIs, Authentication
- Database Integration (PostgreSQL, MySQL)
- MERN Stack Exposure (MongoDB, Express, React, Node.js)



## Module 4: Machine Learning & MLOps

- Supervised & Unsupervised Learning
- Scikit-learn, Model Evaluation
- End-to-end ML Pipeline Building
- CI/CD for ML, Docker & Kubernetes basics

## Module 5: Deep Learning & Computer Vision

- Neural Networks with TensorFlow/PyTorch
- Convolutional Neural Networks (CNNs)
- Image Classification, Object Detection
- Real-time deployment

## Module 6: NLP & Language Models

- Text Preprocessing, Tokenization
- Transformers, BERT, GPT family
- Sentiment Analysis, Chatbots
- Multilingual NLP applications

## Module 7: Generative AI & Large Language Models (LLMs)

- Open Source LLMs: LLaMA, Mistral, Falcon
- Fine-tuning & Evaluation
- **LangChain & LangGraph** for Agent Workflows
- Multi-agent system design
- RAG & LLMOps deployment workflows



## Module 8: DevOps, Cloud, and Deployment

- Docker, Kubernetes for AI workflows
- AWS, Azure basics
- Model hosting on Hugging Face, FastAPI, Streamlit
- End-to-end deployment of full-stack AI apps

## Module 9: Capstone Projects & Portfolio Building

- 3 industry-level full-stack AI projects
- LLM-integrated web applications
- Resume & LinkedIn optimization with AI
- Mock interviews, GitHub showcase

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## Program Benefits

- Learn from senior AI practitioners
- Live mentorship + doubt-clearing support
- Industry-relevant real-world projects
- Career launchpad with portfolio guidance
- Access to HERE AND NOW AI's research community & AI tools

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## Certification & Placement

- Professional Certificate upon completion
- Placement support: resume building, mock interviews, job connections
- Internship and live project opportunities
- Job readiness from Day 1 post training



## Program Fee

**INR 97,925 + 18% GST**

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For Admissions & Inquiries:

**HERE AND NOW AI – Artificial Intelligence Research Institute**

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Join us in building the future of AI. From learning Python to deploying Generative AI Agents, HERE AND NOW AI will guide you through every step of becoming a Full Stack AI Engineer.

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*Built by HERE AND NOW AI. Empowering the next generation of AI talent.*

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