

iHUB DivyaSampark
IIT Roorkee

BATCH OF 2027

FORWARD DEPLOYED ENGINEER PROGRAM
BY iHUB DIVYASAMPARK, IIT ROORKEE

Anyone can demo AI. Few can deploy it.

A 7-month online program for engineers in the Middle East. Learn to work inside a customer's systems, build AI they can trust, and take it from first prototype to production and handover.

DURATION	FORMAT	COMMITMENT	QUALIFIER TEST
7 months	Online	8–10 hrs/week	1 Nov 2026

THE ROLE

The engineer who sits with the customer, and ships.

A Forward Deployed Engineer works directly with a customer's team. You learn their problem, connect to their systems, build the AI solution, put it into production and stay with it until people use it.

01 **Discover**
Listen, scope and agree on what success looks like.

02 **Integrate**
Connect to their data and systems, reliably.

03 **Build and evaluate**
LLM apps and agents, tested against real cases.

04 **Deploy and hand over**
Secure, monitor, train users and hand it over.

> “Own technical delivery across multiple deployments from first prototype to stable production”

OpenAI · Forward Deployed Engineer job post, UAE



WHY NOW

The role AI companies are hiring for, right now.

729%

Growth in Forward Deployed Engineer job postings in one year

Business Insider, analysis of Indeed data · May 2026

$170K+

Typical FDE pay: about $170,000 to over $200,000

Indeed data via Business Insider · May 2026 · based on US postings

$320B

AI's projected contribution to the Middle East economy by 2030

PwC Middle East · 2018 projection

COMPANIES HIRING FDES

OpenAI · Anthropic · Palantir · Microsoft · Salesforce · Databricks · Scale AI · Stripe · Google Cloud

Named in public job posts and industry reporting. Not program partners.

INDUSTRIES WITH DEMAND

IT and SaaS · BFSI and Fintech · E-commerce and Retail · Healthcare and Diagnostics · Consulting and Analytics · Manufacturing and Industry 4.0

THE CURRICULUM

Seven months. Six modules. One real engagement.

From Python and SQL to production AI agents, with a client skill built into every module. It ends with a capstone you deploy, defend and hand over.

01 10 wks	**Programming, SQL & Software Foundations**	Build Python, Git, SQL and API skills from scratch using real business data.	Python · Git · GitHub · VS Code · Google Colab · GitHub Copilot · Cursor · PostgreSQL / MySQL · pytest
02 7 wks	**Customer Systems, Data Engineering & Integration**	Connect to customer systems and build reliable data pipelines you can diagnose and deploy.	FastAPI · Pydantic · Docker · Render · PostgreSQL · OAuth · Git · GitHub
03 4 wks	**LLM Foundations, Evaluation & Customer Knowledge**	Build evaluated AI applications over customer documents and data, with cited answers.	OpenAI API · Pydantic · Chroma · Tesseract · ChatGPT
04 2 wks	**Controlled Agents & MCP**	Design bounded AI agents with tested tools, human approval and safe failure recovery.	OpenAI API · Pydantic · Python · MCP
05 4 wks	**Production Engineering & Customer Adoption**	Secure, monitor and operate the solution, then prepare real users for rollout.	Docker · Render · Prometheus · Grafana · Git · GitHub
06 5 wks	**FDE Engagement & Capstone**	Deliver a complete customer solution, then demonstrate, defend and hand it over.	FastAPI · Docker · Render · PostgreSQL · OAuth · Chroma · OpenAI API · Prometheus · Grafana
Cap	**End-to-end customer engagement**	Take a customer problem from discovery to a deployed, defended and handed-over solution.	Every module builds named customer-facing skills, from stakeholder management to executive communication.

MODULE DURATIONS ADD UP TO 32 WEEKS OF LEARNING ACROSS THE 7 MONTHS.

SAMPLE CAPSTONE PROJECTS

Build a desk a real operations team could run.

Two sample projects that show the kind of engagement you'll deliver: one customer problem carried through all six modules, to a deployed, monitored system with runbooks.

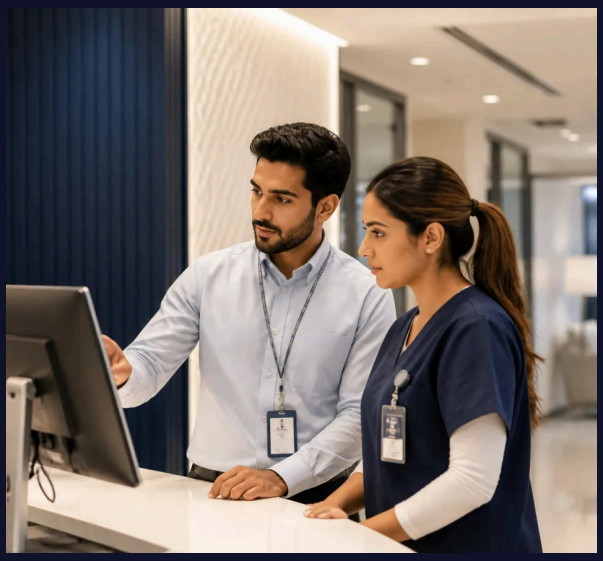


SAMPLE PROJECT · LOGISTICS

Warehouse Fulfilment Recovery Desk

Connect warehouse orders to courier tracking, keep them in sync, and flag failed, delayed or mismatched shipments. Staff get cited answers from SOPs, with a clear abstain when evidence is thin. A bounded agent may propose a reattempt, reroute or refund, never without supervisor approval.

The kind of operation run at Amazon, FedEx, UPS, DHL, Uber, DoorDash, Walmart and Maersk.



SAMPLE PROJECT · HEALTHCARE

Hospital Prior-Authorization Desk

Connect scheduling to payer eligibility and reconcile booked procedures against authorization status. Staff get cited answers from payer policies, with a proceed, narrow or stop call. A bounded agent drafts a prior-auth pack for review approval: no payer auto-submit, no treatment advice.

The kind of operation run at Mayo Clinic, Cleveland Clinic, Johns Hopkins, Kaiser Permanente, UnitedHealth Group, CVS Health, Optum and Humana.



WHY THIS PROGRAM

Built for the job, not the certificate.

THIS PROGRAM	MOST AI COURSES
Real business data from week 1 Python, Git, SQL and API skills, built on real business data	Syntax drills on toy examples Python syntax only
Pipelines that recover and reconcile Checkpoints, recovery and reconciliation	One-off CSV uploads Never checked against the source
RAG with citations, properly tested On customer documents, with untouched test cases	A copy-pasted chatbot tutorial If it's covered at all
Your own agent loop, with MCP Typed tools and human approval, coded in Python	Drag-and-drop agent builders They hide how the agent works
Deployed, monitored, handed over Secured, monitored and handed to a customer	A notebook demo It stops on the instructor's laptop

ROLES IT PREPARES YOU FOR

From the program's career paths.

- Forward Deployed Engineer
- Customer Engineer
- AI Deployment Engineer
- AI Integration Engineer
- Solutions Engineer
- Implementation Engineer
- Applied AI Engineer

YOUR INSTRUCTORS

Learn from engineers who deploy AI for a living.

They've put AI into production at Microsoft 365 Copilot, Google Ads, Thomson Reuters and Qatar's Ministry of Defense. Classes are taught by professors from IITs and IIMs, and by industry experts.



Ashish Prasad

Engineering Manager, AI and ML · Microsoft Turing

Worked on bringing GPT-5 into Microsoft 365 Copilot with a cross-functional team of more than thirty, and helped build Analyst, an AI data scientist agent.



Sayan Dey

Principal AI Architect, Qatar's Ministry of Defense · Visiting Faculty at Caltech, Purdue and IIM Bangalore

Builds air-gapped GenAI and multi-agent systems. 15+ years in AI and engineering; has trained 20,000+ professionals.



Karan Bhyana

Analytics and AI · Google

Builds Gemini-powered dashboards for the Ads team. At Walmart, ran A/B tests on GenAI features that contributed to a $100 million lift in annual e-commerce revenue.



Shirsha Ray Chaudhuri

Senior Director of Applied Research · Thomson Reuters (ex-Amazon)

Takes AI research into production agentic systems for enterprise content. Previously at Amazon, Mercedes-Benz R&D India and Nokia.

CERTIFICATION

Leave with a certificate, and proof you can deploy.

CERTIFICATE

iHUB DivyaSampark, IIT Roorkee

With 65% attendance, live or recorded, and a 30% overall score. Digital certificate, issued within 2–3 months of the final exam.

CAPSTONE

A deployed customer solution

From discovery to a deployed, defended and handed-over solution.

PRACTICE

Customer-facing skills

Each module builds named skills, from stakeholder management to executive communication.



Main Building, IIT Roorkee · Photo: Sidbij, Wikimedia Commons, CC BY-SA 4.0

THE INSTITUTE

Backed by IIT Roorkee and India's Department of Science and Technology.

iHUB DivyaSampark is a government-backed innovation hub at IIT Roorkee, one of India's oldest and most respected engineering institutes. It brings together research, startups and training in AI, smart devices and cyber-physical systems.

A national innovation hub

Set up by India's Department of Science and Technology with IIT Roorkee, as part of a national mission on cyber-physical systems.

AI and emerging technology

Sensors, smart materials and intelligent devices combined with AI, ML and AR/VR, for healthcare, industry, smart cities and defence.

A deep-tech startup ecosystem

Mentorship, infrastructure, funding access and prototype grants, with startups recognised by India's Ministry of Electronics and IT.

Training and an industry network

Fellowships, certification courses and hackathons, with a governing board that includes Accenture Labs and L&T Semiconductors.



ADMISSIONS

Four steps to the January 2027 batch.

01

Register

Book your $5 qualifier test and unlock a free mock test.

02

Take the qualifier

A 60-minute online test on 1 November 2026.

03

Get your result

Shared with you after the test.

04

Secure your seat

Pay the registration fee; enrolment is confirmed once the full fee is paid.

TOPICS

Quantitative aptitude (Class 10 level), logical reasoning, basic computer knowledge, and verbal ability and communication.

CLASSES

Live on Zoom, weekday evenings 8–10 PM UAE time (7–9 PM KSA). Recordings on the learning portal.

REMEMBER

60 minutes, one attempt, at your allotted slot, on a desktop or laptop. Open to graduates and postgraduates; international applicants welcome.

QUALIFIER TEST

$5

Includes a free mock test

TOTAL PROGRAM FEE

$1,500

≈ AED 5,509 · one-time payment, no taxes

Your next deployment starts with one test.

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In collaboration with masai.