CodeKerdos

4-MONTH ADVANCED

AI FORWARD DEPLOYED ENGINEERING (FDE) PROGRAM

Become an Enterprise AI Engineer
Who Builds, Deploys & Solves
Real Business Problems



DURATION
4 MONTHS

LIVE MENTORSHIP
Learn from industry experts working at top AI companies

ENTERPRISE PROJECTS
Build real-world AI solutions used in enterprise

GUARANTEED INTERVIEW SUPPORT
Resume reviews, mock interviews & job opportunities

PREPARE FOR TOP AI & TECH COMPANIES

OpenAI · ANTHROP\C · Microsoft · Google · NVIDIA · Palantir · databricks · scale · ramp · & More

CodeKerdos

Shaping Learners into Leaders:

A Message from Our Founder



At CodeKerdos, we believe learning should do more than teach, it should transform. This program is built to help you go beyond theory and into **real-world impact** with AI that solves, scales, and creates value.

We've designed this journey to give you hands-on experience with cutting-edge tools, real projects, and industry best practices, so you're **not just job-ready, you're future-ready.**

Whether you're starting your career journey or looking to level up, this program will help you **think deeper, build smarter, and lead with confidence.**

Yogesh Sharma
Founder of **CodeKerdos**
Ex- Google

> **This isn't just a course.**
> **It's your launchpad to the future of AI.**



Learn. Build. Lead.
The future is built by those who build it.

CodeKerdos

Why Forward Deployed Engineering?

Forward Deployed Engineers (FDEs) are the bridge between cutting-edge AI technology and real business impact. They work with customers, build production-ready AI solutions and drive transformation at scale.

Be the engineer companies trust to solve their hardest problems.



ENTERPRISE AI
Build and deploy AI solutions that solve real enterprise business problems.

CUSTOMER DISCOVERY
Work directly with customers to understand needs and design the right AI solutions.

AI AGENTS
Design intelligent agents and multi-agent systems that automate complex workflows.

PRODUCTION DEPLOYMENT
Deploy scalable, secure and reliable AI applications on cloud platforms.

CLOUD AI
Leverage AWS, Azure and modern cloud services to build at scale.

AI CONSULTING
Become a trusted advisor and technical partner for enterprise clients.

REAL-WORLD PROJECTS
Build portfolio-ready projects that showcase your skills and impact.

MAANG MENTORS
Learn from experienced mentors from top tech companies.

INTERVIEW PREP
Get interview-ready with mock interviews, resume help and career guidance.

CodeKerdos

Why This FDE Program?



We focus on what makes you enterprise-ready and future-proof.



01

ENTERPRISE AI ENGINEERING

Learn to build real-world AI solutions that solve business problems. You'll work on the complete AI product lifecycle – from understanding customer needs to deploying production-ready solutions.

Customer Centric | End-to-End AI Solutions | Business Impact



02

PRODUCTION-FIRST DEVELOPMENT

Master modern tools and frameworks to build scalable, secure and production-ready AI applications using industry best practices.

Production Code | Secure & Scalable | Deploy with Confidence

CodeKerdos

Why This FDE Program?

Hands-on learning. Real-world projects. Career transformation that sets you apart.





03

REAL CLIENT PROJECTS

Work on real-world enterprise use cases and industry-grade projects that build your portfolio and showcase your impact.

- Industry Use Cases
- Portfolio Ready
- Stand Out to Employers



04

INTERVIEW PREPARATION & CAREER SUPPORT

Get expert mentorship, resume reviews, mock interviews and placement support to land top AI engineering roles.

- 1:1 Mentorship
- Mock Interviews
- Placement Support

A Complete Path To Become An **Enterprise AI Engineer** & Problem Solver.

CodeKerdos

MONTH 1

ENTERPRISE SOFTWARE FOUNDATIONS



Build a strong foundation in professional programming, backend development and databases to create robust, enterprise-ready applications.

WEEK 1



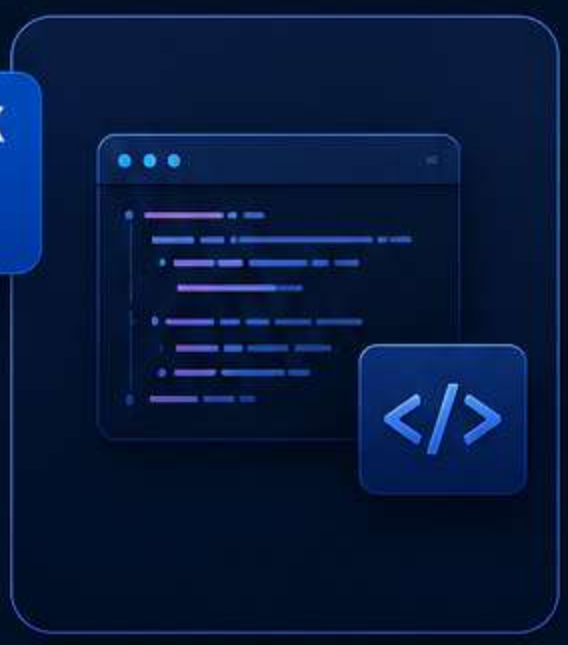
FDE FUNDAMENTALS

- What is a Forward Deployed Engineer (FDE)?
- AI Engineer vs ML Engineer vs Software Engineer vs FDE
- Enterprise AI Product Lifecycle
- Customer-Centric Engineering
- Real-world AI Implementation Journey
- Understanding Enterprise AI Architecture

PROJECT

Create a high-level architecture document for an AI-powered customer support system.

WEEK 2



PRODUCTION PYTHON

- Advanced Python
- Object-Oriented Programming
- Exception Handling & Logging
- Type Hinting & Pydantic
- Project Structure & Virtual Environments
- Writing Production-Ready Code

PROJECT

Build a production-grade Python application with logging, configuration and error handling.

MONTH 1 OUTCOME

You will build the core foundation to write clean, scalable code, create backend services and work with enterprise databases.

CodeKerdos

MONTH 1

BUILD • CODE • STORE

Build robust APIs and work with enterprise-grade databases.



WEEK 3



BACKEND DEVELOPMENT WITH FASTAPI

- REST APIs & HTTP Methods
- CRUD Operations
- Request Validation & Error Handling
- Authentication (JWT & OAuth)
- File Uploads & Streaming Responses
- API Documentation

PROJECTS YOU'LL BUILD

- Authentication System
- Document Upload API
- Chat API

WEEK 4



SQL & ENTERPRISE DATABASES

- SQL Fundamentals
- Advanced SQL
- Joins & Subqueries
- Window Functions
- CTEs & Query Optimization
- PostgreSQL
- MongoDB
- Redis
- Database Design Best Practices

PROJECT

Design and build a Customer Analytics Database with real-world queries and reporting.

BY THE END OF MONTH 1

- Write clean, production-ready Python code
- Build secure, scalable APIs with FastAPI
- Work with enterprise-grade databases
- Build real-world projects for your portfolio



CodeKerdos

MONTH 2

CLOUD & AI FOUNDATIONS

Learn cloud platforms, DevOps and AI/ML fundamentals to build and deploy intelligent applications at scale.



WEEK 5



CLOUD FOR AI ENGINEERS

AWS

- EC2
- S3
- Lambda
- API Gateway
- IAM

AZURE

- Azure OpenAI
- Blob Storage
- Key Vault
- Azure Functions
- App Services

PROJECT

Deploy a FastAPI based AI API on AWS or Azure with secure access and monitoring.

aws AWS Deployment | Azure Deployment | Secure Access

WEEK 6



DOCKER & DEVOPS

- Docker
- Docker Compose
- Git & GitHub
- CI/CD
- GitHub Actions
- Logging
- Monitoring
- Production Deployment
- Best Practices

PROJECT

Dockerize and deploy a full-stack AI application using CI/CD pipeline with GitHub Actions.

Dockerized App | CI/CD Pipeline | Monitoring & Logging

BY THE END OF MONTH 2

You will be able to leverage cloud services, automate deployments and build ML models to power real-world AI applications.

CodeKerdos

MONTH 2

AI & ML FOUNDATIONS

Master core AI/ML concepts and LLMs to build intelligent, real-world AI applications.



WEEK 7



MACHINE LEARNING FUNDAMENTALS

- ML Lifecycle
- Regression
- Classification
- Clustering
- Feature Engineering
- Model Evaluation
- Cross Validation
- Hyperparameter Tuning
- MLflow Basics

PROJECT

Build a Customer Churn Prediction model with end-to-end ML pipeline and experiment tracking using MLflow.

End-to-End ML Pipeline | MLflow Tracking | Model Evaluation

WEEK 8



LARGE LANGUAGE MODELS (LLMS)

- How LLMs Work
- Prompt Engineering
- Function Calling
- Structured Outputs
- Embeddings
- Context Windows
- Token Management
- Working with GPT, Claude, Gemini & Open Models

PROJECT

Build an Intelligent AI Assistant that understands user queries, uses tools and provides accurate responses.

Conversational AI | Function Calling | Structured Responses

BY THE END OF MONTH 2

You will build ML models, work with LLMs and create intelligent AI assistants.



CodeKerdos

MONTH 2

RETRIEVAL-AUGMENTED GENERATION WEEK 9

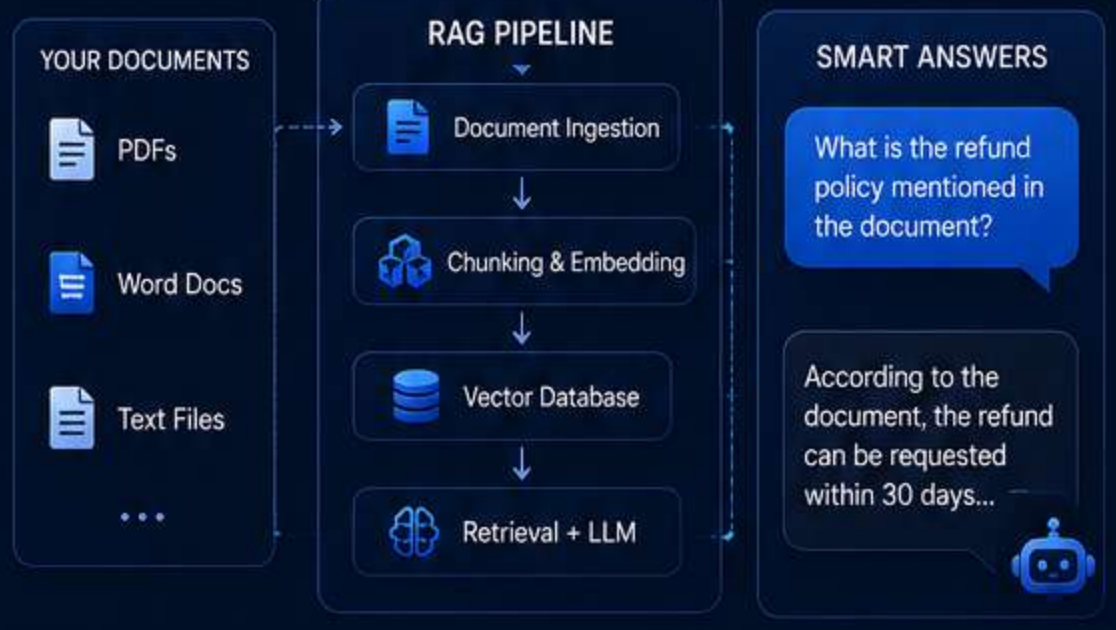
Build advanced AI applications that retrieve real-world data and generate accurate, contextual responses.



HANDS-ON

ENTERPRISE DOCUMENT CHATBOT

Build a secure, AI-powered chatbot that can understand enterprise documents and provide accurate, context-aware answers.



WHAT YOU'LL LEARN

- What is RAG & How it works
- Embedding Models & Vector Search
- Document Chunking Strategies
- Building RAG Pipelines
- Prompt Engineering for RAG
- Evaluation & Optimization
- Deploying RAG Applications

TOOLS & TECHNOLOGIES

LangChain | FAISS | OpenAI

Hugging Face | Chroma | Streamlit

KEY OUTCOMES

- Secure Document Access
- Context-Aware AI Responses
- Enterprise Ready
- Real-World Impact

PROJECT DELIVERABLES

- Document Ingestion Pipeline
- Vector Database Integration
- AI Chat Interface (Web App)
- Deployment Ready App

BY THE END OF MONTH 2

You will build ML models, work with LLMs and create intelligent AI assistants.



CodeKerdos

MONTH 3

AI AGENTS & ENTERPRISE AI



Build intelligent agents and integrate AI solutions into real-world enterprise systems.

WEEK 10

AI AGENTS



- What are AI Agents?
- Types of AI Agents
- Agent Architectures
- Planning & Reasoning
- Memory & Tool Use
- AutoGPT & Agent Frameworks
- Multi-Agent Collaboration
- Agent Evaluation & Safety

PROJECT

Multi-Tool AI Agent

Build an AI agent that can search the web, query documents, use tools (e.g. calculator, weather API) and provide context-aware answers.

WEEK 11

ENTERPRISE INTEGRATIONS



- API Integrations
- Database Integrations
- Authentication & Authorization
- Workflow Automations
- Vector DB Integrations
- Monitoring & Logging
- Scaling AI Applications
- Security Best Practices

PROJECT

Enterprise AI Integration Platform

Build an end-to-end AI platform that connects to external APIs, databases and tools, automates workflows and delivers AI-powered insights.

FastAPI · PostgreSQL · Pinecone · Slack API

BY THE END OF MONTH 3

- Build intelligent AI agents that can reason and take actions
- Integrate AI solutions with enterprise APIs, databases and workflows
- Deploy secure, scalable and production-ready AI systems
- Deliver real-world impact with automation and AI-driven insights

CodeKerdos

MONTH 3

DATA ENGINEERING

WEEK 12

Build scalable data pipelines and intelligent data systems to power AI applications and agents.



HANDS-ON PROJECTS

Build real-world data + AI applications and intelligent assistants.

SQL AGENT



Build an agent that understands natural language and generates SQL queries, analyzes data and provides insights.

RESEARCH AGENT



Build an agent that searches, summarizes and analyzes information from multiple sources and presents actionable insights.

ENTERPRISE ASSISTANT



Build an enterprise assistant that connects with your data, tools and APIs to answer queries and automate tasks.

DEPLOYMENT & PRODUCTION

Take your applications from development to production with best practices.

DEPLOYMENT

Deploy AI applications and pipelines to cloud with CI/CD and infrastructure as code.

MONITORING

Monitor application performance, data pipelines and agent behavior.

OBSERVABILITY

Implement logging, tracing and alerting for reliable and transparent systems.

ENTERPRISE ARCHITECTURE

Design scalable, secure and cost-efficient architecture for enterprise AI systems.

CASE STUDIES

Learn from real-world implementations and solve enterprise challenges.

TOOLS & TECHNOLOGIES

Python · SQL · Apache Airflow · dbt · Databricks

BigQuery · AWS · Docker · LangChain · OpenAI

KEY OUTCOMES

- Build production-ready data pipelines and agents
- Deploy and monitor enterprise AI applications
- Implement observability and best practices
- Design scalable enterprise AI architecture
- Solve real-world data engineering challenges

BY THE END OF MONTH 3

- You will build intelligent agents and assistants
- Create scalable data pipelines
- Deploy and monitor production systems
- Deliver real-world enterprise impact

CodeKerdos

MONTH 4

CLIENT CONSULTING + CAPSTONE



Apply your skills to real client problems and build production-ready AI solutions.

WEEK 13 — CLIENT DISCOVERY

- Understanding Client Needs
- Problem Framing
- Stakeholder Interviews
- Solution Scoping
- Success Metrics & KPIs
- Technical Feasibility Analysis
- Proposal & Project Planning



PROJECT

Client Discovery Report

Work on a mock client scenario to identify their pain points, define project scope, propose AI-powered solutions and create a detailed discovery report.

- Stakeholder Map
- Problem Statement
- Solution Proposal
- Success Metrics

WEEK 14 — CAPSTONE PROJECTS

- End-to-End Project Execution
- Data Pipeline & Integration
- Model Development & Optimization
- LLM / Agent Integration
- Deployment & Monitoring
- Performance Evaluation
- Business Impact & Presentation



PROJECT

End-to-End AI Solution

Build and deploy a complete AI solution from scratch. Solve a real-world problem, integrate all components and deliver a production-ready application.

- Data Pipeline & Model
- LLM / Agent Integration
- Deployment & Monitoring
- Business Impact Presentation

WHAT YOU'LL DELIVER

- Client Discovery Report
- Solution Architecture
- Working AI Application
- Deployed Solution
- Performance Report
- Final Presentation

BY THE END OF MONTH 4

You will have hands-on consulting experience and a capstone project ready to showcase.



CodeKerdos

MONTH 4

INTERVIEW PREP & PORTFOLIO BUILDING



Get interview-ready and build a standout portfolio to land top AI roles.

WEEK 15 — INTERVIEW PREPARATION

- AI/ML & Data Engineering Concepts
- System Design for AI Applications
- LLM & GenAI Interview Questions
- Behavioral & HR Interview Prep
- Mock Interviews & Feedback
- Resume Review & Optimization



FOCUS AREAS

- Technical Knowledge
- System Design
- Communication Skills
- Behavioral Excellence

PROJECT DELIVERABLES

- Mock Interview Reports
- Resume Makeover
- Interview Q&A Notes
- Personalized Feedback

WEEK 16 — PORTFOLIO BUILDING

- Showcasing End-to-End Projects
- GitHub Best Practices
- Project Documentation
- Case Studies & Business Impact
- Portfolio Website / Dashboard
- LinkedIn Optimization



WHAT YOU'LL BUILD

A professional portfolio that highlights your skills, projects and impact to stand out to recruiters and clients.

- End-to-End Projects
- Live Demos & Links
- Case Studies & Results
- Portfolio Website

PROJECT DELIVERABLES

- GitHub Repository
- Project Documentation
- Portfolio Website
- LinkedIn Profile Update

TOOLS & PLATFORMS

GitHub · Notion · Vercel · Streamlit · Canva · Figma · LinkedIn · Overleaf

KEY OUTCOMES

- Crack technical, system design & LLM interviews
- Build a portfolio that showcases real impact
- Stand out to top tech companies & clients
- Boost confidence and career opportunities

BY THE END OF MONTH 4

You will be interview-ready with a strong portfolio to launch your career as an AI professional.



CodeKerdos

CAPSTONE PROJECTS



Real-world AI solutions.
Built by you.

PROJECT 1

ENTERPRISE DOCUMENT INTELLIGENCE

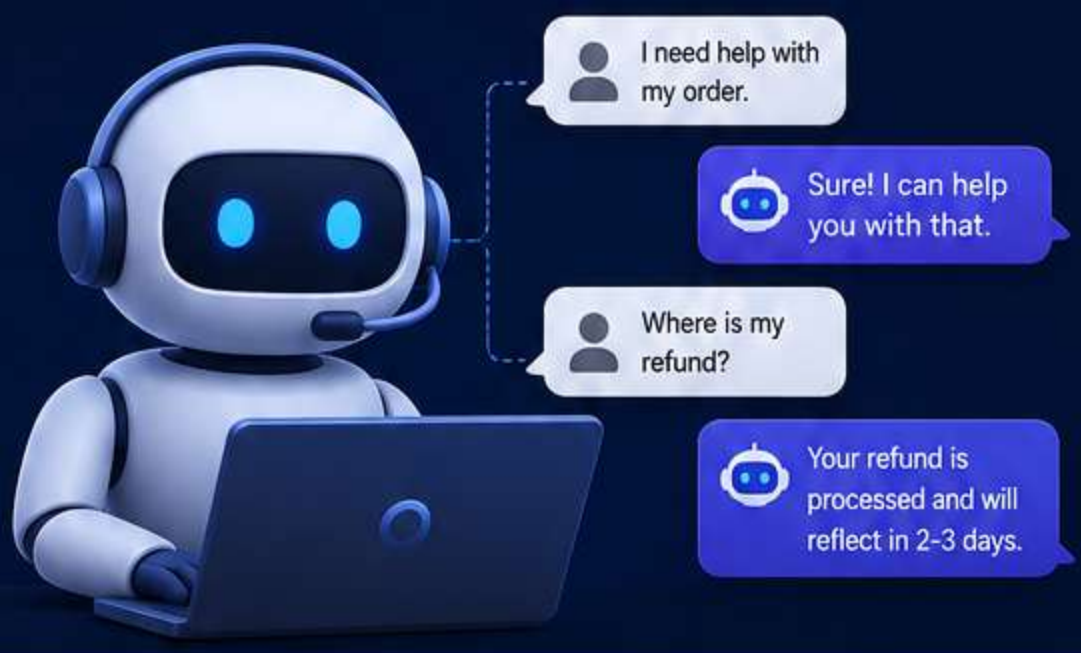
Extract, analyze and summarize documents using AI.



PROJECT 2

CUSTOMER SUPPORT COPILOT

Build an AI copilot that understands customer queries and delivers accurate, helpful responses.



PROJECT 3

ENTERPRISE SQL COPILOT

Use natural language to query databases and get intelligent insights instantly.



CodeKerdos

TECHNOLOGIES COVERED



PROGRAMMING

Python · SQL · JavaScript · TypeScript · Pydantic · JSON

BACKEND

FastAPI · Flask · Django · Node.js · REST API

CLOUD

AWS · Azure · Google Cloud

LLMs

OpenAI · Claude · Gemini · Llama

VECTOR DB

Pinecone · Weaviate · Chroma · FAISS

AGENTS

LangGraph · Autogen · CrewAI · ReAct

DATABRICKS

Databricks

DOCKER

Docker

DEVELOPER TOOLS

GitHub · Git · VS Code · Postman

CLOUD PLATFORMS

AWS · Azure · Google Cloud

AI & MODEL PROVIDERS

OpenAI · Claude · Gemini · Mistral AI · Anthropic · Cohere · Hugging Face

CodeKerdos

LEARNING OUTCOMES



By the end of this program, you will be able to:

Understand AI Deeply

Build strong foundations in AI, ML, LLMs and modern architectures.

Build Real AI Systems

Develop end-to-end AI applications with production-grade code.

Work with Enterprise Data

Design data pipelines, RAG systems and intelligent data workflows.

Create AI Agents

Build autonomous agents that solve real business problems.

Deploy & Scale AI Solutions

Deploy, monitor and scale AI applications on cloud with best practices.

Solve Real Business Problems

Apply AI to solve complex enterprise use cases and deliver impact.

Think Like a Consultant

Learn client discovery, problem framing and solution design mindset.

Get Career Ready

Build a strong portfolio and interview readiness to land top AI roles.

CAREER ROLES

Unlock high-impact AI careers across top companies.

01



Forward Deployed Engineer

Build solutions on the ground, drive adoption and deliver measurable impact.

02



Applied AI Engineer

Design and build AI-powered applications that solve real business problems.

03



AI Consultant

Guide organizations in adopting AI with the right strategies and solutions.

04



AI Platform Engineer

Build and manage scalable AI platforms and infrastructure for enterprise use.

05



Enterprise AI Engineer

Develop secure, reliable and scalable AI systems for measurable applications.

06



AI Solutions Engineer

Design end-to-end AI solutions that drive automation and business value.

07



AI Architect

Architect the future of AI systems with robust, scalable and future-ready designs.

CodeKerdos

OUR LEARNERS WORK AT



Top product companies
building the future.

Google | Microsoft | amazon | Meta

Apple | NETFLIX | Uber | Adobe

salesforce | JPMorgan Chase & Co. | ORACLE | servicenow

Spotify | airbnb | Snap | EPIC GAMES

LinkedIn | INTUIT | Walmart | paloalto NETWORKS

Cohere | ATLASSIAN | RIPPLING | DATADOG

From learning to leading.
Our learners. Top companies. Real impact.

CodeKerdos

CONTACT US

We believe in complete transparency and are committed to providing you with all the details you need to make an informed decision.



Got Questions? We're Here to Help!

Feel free to reach out, our team is always ready to assist you!

We'll help you navigate

your options and find the best fit for you.

We're just a call away!

Still unsure? Let's talk!

Email Us
support@codekerdos.in

Instagram
@codekerdos

Call / WhatsApp
+91 92664 04473

LinkedIn
@CodeKerdos

Visit Our Website
codekerdos.in

WE CARE ABOUT YOUR GROWTH.

Let's connect and build your future together!