

# Pi Bi Tech – AI Product Developer & Industry Internship Certification Program

Pi Bi Tech - AI Product Developer & Industry Internship Certification Program - A launchpad for innovation and career success.

Duration : 60 Hours, (Weekdays + Weekend Batches Available)

Outcome Build your own AI product from scratch, own the IP, pitch to VCs, and take it to market. Job-Ready AI Product Developer eligible for top product companies globally.

All-in-One Certification : No specialization tracks - learners gain complete AI product knowledge from concept to deployment to growth strategy.

## Course Learning Objectives

### By the End of This 45-Day Program, You'll:

- ✓ Launch your own AI-powered product (hosted by Pi Bi Tech)
- ✓ Pitch for VC funding and business mentorship
- ✓ Become a certified AI Product Developer ready for high-paying roles
- ✓ Have a GitHub-backed portfolio with real-world experience
- ✓ Receive an Internship + Experience Certificate for top product roles

## Course Modules

### Module 1: AI Product Design & Prototyping (6 Hours)

- Design Thinking for AI Products
- Wireframes, Personas & User Journeys
- Rapid Prototyping using AI tools

Tools : Figma, Miro, Whimsical, Voiceflow, Balsamiq



## Module 2: Programming Fundamentals & Backend Setup (5 Hours)

- Python, JavaScript, Go - Crash Introduction
- RESTful APIs & FastAPI/Flask Basics
- Working with JSON, APIs & Integrating LLMs

Tools : Python, Postman, Swagger, FastAPI

## Module 3: Full-Stack Application Development (6 Hours)

- Frontend: ReactJS + Tailwind for AI UI
- Backend: Flask/FastAPI with DB
- Connecting AI APIs to UI

Tools : React, FastAPI, MongoDB, PostgreSQL

## Module 4: Databases for AI (4 Hours)

- RDBMS vs NoSQL
- Graph Databases for knowledge representation
- Vector Databases for embedding search

Tools : PostgreSQL, MongoDB, Neo4j, Pinecone, Weaviate

## Module 5: Data Engineering & Pipeline Building (5 Hours)

- ETL/ELT Concepts
- Data Cleaning & Transformation
- Batch vs Streaming Pipelines

Tools : Apache Airflow, Pandas, Spark, dbt



## Module 6: AI & Machine Learning Essentials (6 Hours)

- ML Lifecycle & Supervised Learning
- Feature Engineering & Model Evaluation
- Model Deployment Basics

Tools : Scikit-learn, TensorFlow, MLflow

## Module 7: Generative AI & LLMs (6 Hours)

- Introduction to LLMs: GPT-4, Claude, Mistral, Llama3
- Prompt Engineering Best Practices
- LangChain, LlamaIndex, LangGraph for LLM apps

Tools : OpenAI, LangChain, Hugging Face, LlamaIndex, LangGraph

## Module 8: Retrieval-Augmented Generation (RAG) (4 Hours)

- RAG Architecture for Enterprise AI
- Chunking, Embeddings & Retrieval Pipelines
- Indexing with Vector DBs

Tools : Pinecone, Weaviate, FAISS, LangChain

## Module 9: AI Agents & Agentic Workflows (5 Hours)

- Understanding AI Agents: Planning, Memory, Execution
- Building Multi-agent systems for tasks
- Use Cases: AutoGPT, CrewAI, LangGraph

Tools : CrewAI, AutoGPT, LangGraph





## Module 10: Cloud & DevOps for AI (4 Hours)

- Cloud Deployment (AWS, GCP)
- CI/CD Pipelines
- Dockerization, Microservices, API Gateway

Tools : Docker, GitLab CI/CD, AWS Lambda, ECS, API Gateway

## Module 11: AI Product Strategy & Business (5 Hours)

- Building a Business Model for AI Products
- Ethical AI, Governance, and Compliance
- Monetization Models for AI Tools

Tools : Notion, Lean Canvas, Tableau, Google Sheets

## Module 12: Go-To-Market & Product-Led Growth (4 Hours)

- Positioning & Messaging AI Products
- Product-Led Growth (PLG) Frameworks
- Building Launch Strategy & Feedback Loops

Tools : HubSpot, Mixpanel, Amplitude, SEMrush

## Capstone Project (Integrated Throughout Course)

Objective : Build a complete AI product prototype → MVP → deploy → prepare GTM.



## **What Makes This Program Unique?**

- **Build Your Own Product from Scratch**

From idea to prototype to full-stack AI app - develop your own AI-powered product by the end of the training.

- **You Own Your Product IP**

Unlike traditional bootcamps, you retain full ownership of the product you build.

- **VC Funding Support from Pi Bi Tech**

We help high-potential learners pitch to VCs and investors , with mentorship and pitch deck assistance to bring your product to market.

- **Product Hosting & Launch Support**

Pi Bi Tech provides cloud hosting and go-to-market support so your product can go live and scale.

- **Expert Internship Experience Certificate**

Get an Industry-Recognized Internship Certificate from Pi Bi Tech, signed by top mentors and practitioners.

- **Placement Support**

We help you land top AI product roles in leading product companies - with resume reviews, mock interviews, and referrals .