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

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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

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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.
 Includes:

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**.