



# PM Accelerator

## Bootcamp Journey

Use this document as a high-level overview of your journey.

This document will reference both these aspects:

- **Technical Skills Development**
  - Core ML/AI Concepts
  - Gen AI & Data Engineering
  - MLOps & Deployment
- **Project-Based Learning**
  - Agile Scrum Methodology
  - Team Collaborations
  - Real-world Applications

## Project Timeline

Here is a high-level timeline of your 11-week journey.

### Week 1 - 11 Agenda for AI PM Bootcamp

- **Week 1:** Learning and Onboarding Study all the AI knowledge:
  - [Training for AI Engineers](#)
  - [Engineers' Training Youtube Playlist](#)
  - [Training of AI Designers](#)

- [Designers' Training Playlist](#)
- Engineers: Working on [Job Assistant Agent](#) or [Discord RAG FAQ Chatbot](#)
  - Make sure to join **Office hours** to discuss your thoughts and issues with these projects. (every Saturday)
- **Week 2: Learning and Onboarding** Study all the AI knowledge:
  - Engineers/Data Scientists
    - [Training for AI Engineers](#)
    - [Engineers' Training Youtube Playlist](#)
  - Designers
    - [Training of AI Designers](#)
    - [Designers' Training Playlist](#)
  - **Designers:** Join Pitch Day & Team Match (within 24 fill out AI products interested in on [Team Match.xls](#) for Cohort 7) -
    - Designers and PM's need to reach out to each other and determine if they are a good match. Each team can initially have 2 designers. (1 - Senior + 1 - Junior)
      - Format: Full\_Name(Role - Senior/Junior)
        - Senior 2 or more years of experience
    - After designers join the team: Discuss User Interview process [PM to lead this discussion] ⇒ Prioritize Fast matching this week

- Main communication = Discord (check daily)
- **Engineers:** Working on [Job Assistant Agent](#) or [Discord RAG FAQ Chatbot](#)
  - Make sure to join **Office hours** to discuss your thoughts and issues with these projects.
- **Week 3:** Continue development
  - Designer building High-Fidelity Designs
    - User Interviews (continue)
    - Prepare for Week 4 presentation to Engineers/Data Scientists
  - Engineers: Working on [Job Assistant Agent](#) or [Discord RAG FAQ Chatbot](#)
    - Make sure to join **Office hours** to discuss your thoughts and issues with these projects.
    - Submit your code and video walk through of code logic and provide a running example by filling out this [Google Form](#)
- **Week 4:** Prepare and Join Pitch Day & Ranking
  - Designers & PM present to Engineers
  - Engineers join Zoom Pitch Day and fill out [Google Ranking form](#). *(Lead Engineers get Ranking choice priority)*
    - [Lead Engineer Responsibilities](#) =
      - Lead System Architecture Design (Bring thoughts to Office Hours)
      - Determine version control process in shared repository (Github) [And Git locally]
      - Assist other Engineers (not code for them but help with issues/hurdles)
      - Help PM's with technical hurdles

- **Week 5:** Cross-functional team collaboration. Agile feature development
- **Week 6:** Cross-functional team collaboration. Agile feature development
- **Week 7:** Cross-functional team collaboration. Agile feature development
- **Week 8:** Cross-functional team collaboration. Agile feature development
- **Week 9:** Cross-functional team collaboration. Agile feature development
- **Week 10:** Testing and Demo ready
- **Week 11:** Demo!

### Training Documents:

- [Training for Engineers](#) *(Click link)*
- [Training for Designers](#) *(Click link)*
- Transformers Illustrated
  - [The Illustrated Transformer – Jay Alammar](#)
- Andrej Karpathy's Neural Networks Zero to Hero
  - [Neural Networks: Zero to Hero - YouTube](#)
- HuggingFace Course
  - [Introduction - Hugging Face NLP Course](#)

### Gen AI & Data Engineering (4 Days)

[Generative AI for Beginners | Microsoft Learn](#)

- **Day 1-2: LLM Fundamentals**
  - LLM architectures
  - Prompt engineering
  - Context length and limitations
  - RAG (Retrieval Augmented Generation)
  - Vector databases
- **Day 3: Data Engineering**
  - Data preprocessing
  - Text chunking strategies

- Embedding models
- Vector similarity search
- Data quality and validation
- **Day 4: Integration**
  - API integration (OpenAI, Anthropic)
  - Streaming responses
  - Error handling
  - Cost optimization
- **Practical Exercises:**
  - Build a simple chatbot
  - Implement RAG system
  - Create custom training dataset
- **Resources:**
  - LangChain Documentation
    - [Tutorials | 📖 LangChain](#)
  - OpenAI Cookbook
    - [GitHub - openai/openai-cookbook: Examples and guides for using the OpenAI API](#)
  - Vector Database Fundamentals
    - [What is a Vector Database & How Does it Work? Use Cases + Examples | Pinecone](#)

## MLOps & Deployment (3 Days)

- **Day 1: Development Practices**
  - Git workflow
  - Code review process
  - Documentation standards
  - Testing strategies
- **Day 2: Deployment**

- Docker containerization
- CI/CD pipelines
- Model serving
- API development (FastAPI)
- **Day 3: Monitoring**
  - Logging best practices
  - Performance monitoring
  - Cost tracking
  - Error handling
- **Resources:**
  - MLOps Zoomcamp
    - [GitHub - DataTalksClub/mlops-zoomcamp: Free MLOps course from DataTalks.Club](#)
  - FastAPI Documentation
    - [FastAPI](#)
  - Docker for ML
    - [Docker For Data Scientists](#)

## Project-Based Learning (Weeks 3-11)

- Agile Scrum Methodology (Week 3)

Please set aside 1 hour for Agile (Week 1&2)

[Understanding Agile Scrum.pdf](#)

[What Is Agile Methodology? | Introduction to Agile Methodology in Six Minutes | Simplilearn](#)

[What Is Agile Scrum Framework? | Scrum Framework Explained | Agile Methodology | Simplilearn](#)

[Master the Daily Scrum: Everything You Need to Know for](#)

## Agile Success! ☒ | Scrum Basics Simplified

### What are the tools and techniques for documenting and tracking scope and change in agile?

- **Sprint Structure:** (*team consensus*)
  - 1-2 week sprints
  - Standups (15 mins)
  - Sprint planning (1 hour)
  - Sprint review (20 mins)
  - Retrospective (20 mins)
- **Documentation Requirements:** (*team consensus*)
  - Sprint backlog
  - User stories
  - Technical documentation
  - API documentation
  - Deployment guides
- **Tools:** [PM's to choose]
  - Any free Project tracking tool (JIRA, Monday etc.)
    - <https://clickup.com/>
    - Google Sheets
    - <https://linear.app/>
    - <https://taiga.io/>
    -
  - Any choice of documentation tool
  - GitHub for code management
- Team Collaborations (Weeks 4-11)
  - **Team Structure:**
    - Roles:
      - Full Stack Engineer
        - Front end Engineer
        - Back end Engineer

- Fullstack Engineer
  - Data Scientist
  - UX Designer
  - Product Manager
- **Example Weekly Schedule:** (*team consensus*)
  - Monday: Sprint planning/review
  - 2 times Weekly: Standups
  - Wednesday: Technical discussion
  - Friday: Demo/documentation
- Real-world Applications (Ongoing)
  - **Project Requirements:**
    - Business value proposition
    - Scalability considerations
    - Cost optimization
    - Security compliance
    - User experience
  - **Deliverables:** (*team consensus*)
    - Working prototype
    - Technical documentation
    - API documentation
    - Deployment pipeline
    - Monitoring dashboard
    - Final presentation



Onboarding Video Link By Anil Thomas: <https://youtu.be/ZBEoZYmMCMc>  
[Cohort 5]

### **Success Metrics:**

1. Functional prototype
2. Clean, documented code
3. Comprehensive testing
4. Clear documentation
5. Effective presentation
6. Team collaboration

### **Tools & Technologies**

[\[05. Tools & Technologies.docx\]](#)

## **Mentor Kat Sao's Schedule & Recordings (Cohort 3)**

Week 1: Friday, January 31 @11am - Duration: 1hr

Session Theme: Introduction, What to expect, Timelines, Q&A

[https://youtu.be/\\_v6hyhS\\_U0U](https://youtu.be/_v6hyhS_U0U)

Week 2: Friday, February 7 @ 11am - Duration : 30 mins Session Theme:  
Q&A: General - (Session Canceled, No attendees)

Week 3: Friday, February 14 @ 11am - Duration 1hr Session Theme:  
Prepping for Team Matching & I'm on a team, now what?

<https://youtu.be/d7bClwIXZsY>

Week 4: Friday, February 21 @ 10am - Duration 30 mins Session Theme: AI  
Product Lifecycle <https://youtu.be/sc8g3RvwBBk>

Week 5: Friday, February 28 @ 11am - Duration 30 mins Session Theme:  
Outcome Mindset & Delivering Value <https://youtu.be/ADjjqyM1zP4>

Week 6: Friday, March 7 @ 11am - Duration 30 mins Session Theme: Q&A:  
Retrospective, how's it going? (no recording) No Recording

Week 7: Friday, March 14 @ 11am - Duration 1hr Session Theme: Q&A and  
Retrospective - No recording

Week 10: Friday, April 4 @ 11am - Duration 1hr Final Session Theme: Demo  
Practice & Retrospective - CANCELED