



# PFE BOOK

## THE FUTURE BEYOND...



# Why XLAiner?



**Learn by Doing:** Work on real-world challenges that directly impact our operations and product development.



**Explore Cutting-Edge Technologies:** Use AI tools like OpenAI, GPT APIs, and automation frameworks to innovate in business and education.



**Work in a Dynamic Startup Environment:** Gain exposure to a fast-paced, innovative work culture with opportunities to learn across multiple domains.



**Build Your Career:** Gain practical experience and mentorship from industry professionals, helping you grow as a professional.



# 1. AI-Driven Social Media Content Creator



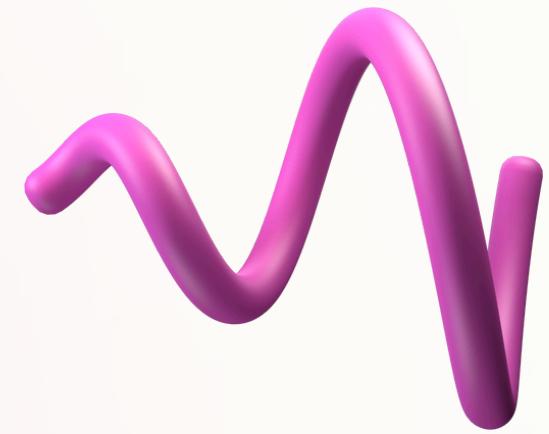
Develop an AI-powered assistant to create and manage social media content. The assistant will generate post ideas, captions, hashtags, and suggest visual designs. Marketing students will focus on crafting prompts for ChatGPT, guiding the AI for creative and brand-aligned content.

## Requirements:

- Familiarity with social media platforms (LinkedIn, Instagram, Facebook).
- Interest in AI tools (OpenAI/ChatGPT) and prompt engineering.
- Basic knowledge of campaign strategy and content trends.

**Target Profiles:** Marketing, communication, or media students.

**Internship Period: 4–6 months**



## 2. Financial Management System

Build a centralized system to track revenues, expenses, subscriptions, and generate invoices. The system will automate financial reporting, manage technical/commercial offers, and provide analytics for business insights.

### Requirements

- Proficiency in Python (**Django**/FastAPI) and databases (PostgreSQL or SQLite).
- Experience in frontend technologies ( HTML/CSS/Javascript ..).

**Target Profiles:** Computer science or software engineering students.

**Internship Period: 4–6 months**



# 3. AI-Driven Instructional Design

## Assistant for Micro eLearning

Work with OpenAI tools to create a microlearning module generator for AI and data literacy. Students will design learning objectives, interactive activities, and quizzes, leveraging AI to produce engaging content. Focus on crafting prompts to optimize content generation for specific audiences (e.g., learners, professionals).

### Requirements

- Background in education, pedagogy, or instructional design (or related).
- Interest in using ChatGPT for curriculum planning and activity design.
- Creativity in designing quizzes, simulations, and interactive modules.

**Target Profiles:** Instructional design, education, or marketing students..

**Internship Period: 4–6 months**



# 4. AI-Powered Unit Test Automation

## Framework

Leverage AI tools to automate the generation of unit tests for APIs, AI models, and web applications. This project will explore how AI can reduce the effort required to write comprehensive tests by analyzing code and generating meaningful test cases. The system will integrate with CI/CD pipelines for seamless automation.

### Requirements

- Proficiency in Python testing frameworks (e.g., Pytest, Unittest).
- Familiarity with AI coding tools (e.g., OpenAI Codex, GitHub Copilot).
- Basic understanding of API testing and CI/CD pipelines (GitHub Actions, Jenkins)

**Target Profiles:** Computer science, software engineering, or AI students..

**Internship Period: 4–6 months**

# 5. AI-Assisted Visual Content Creation for eLearning and Marketing



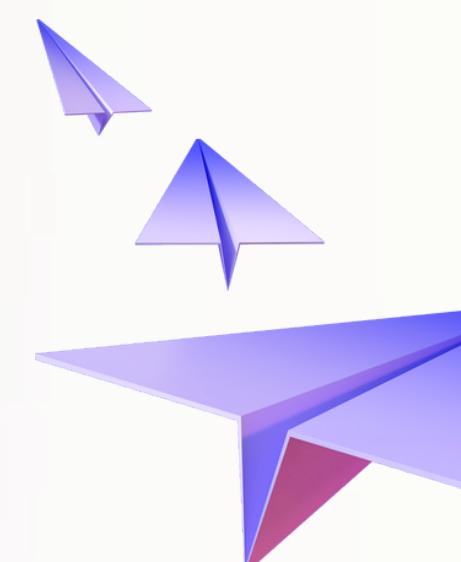
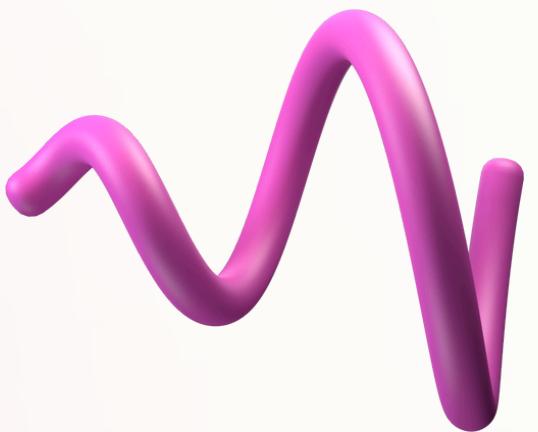
Leverage AI tools like DALL-E and Canva to create visual content for eLearning modules or marketing campaigns. The intern will design infographics, course illustrations, and promotional materials while exploring AI's role in creativity.

## Requirements:

- Interest in visual design (Canva, Adobe, or similar tools).
- Basic understanding of learning materials or branding visuals.
- Openness to experimenting with AI for visual ideation.

**Target Profiles:** Design, media, or marketing students..

**Internship Period: 4–6 months**



# READY TO START A JOURNEY WITH US?

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