GENERATIVE AI FOR REAL ESTATE DEVELOPMENT & INVESTMENT



GENTEX®
TRAINING CENTER

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Introduction

Generative AI for Real Estate Development & Investment Training Course shows property professionals how to apply large language models and generative tools to real development and investment work. Participants learn to draft feasibility narratives, summarise due diligence documents, build market briefs and automate reporting with prompt engineering. The programme covers model selection, retrieval-augmented workflows, data protection and validation of AI output against source documents. Furthermore, it addresses the risks that matter in property: hallucinated figures, confidential deal data and audit expectations. As a result, delegates use AI to save time on analysis and documentation without losing control of the numbers. Gentex Training Center delivers the programme through live tool workshops on real property cases.

Generative AI for Real Estate Development & Investment Course Objectives

- Explain how large language models work and where they add value in property work.
- Write effective prompts for feasibility studies, market briefs and investment memos.
- Apply prompt engineering techniques including role framing, chain-of-thought and structured output formats.
- Summarise long due diligence documents, title reports and lease agreements reliably.
- Build retrieval-augmented workflows that ground AI answers in project documents.
- Automate market research, comparable selection and rental benchmark summaries.
- Generate and critique development narratives, funding papers and board summaries.
- Validate AI output against source data to prevent hallucinated figures.
- Apply data protection, confidentiality and governance rules to AI use.
- Design a practical AI adoption plan for a development or investment team.

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Course Methodology

The course combines short demonstrations with extensive hands-on tool workshops on real property cases. Participants write prompts, build retrieval workflows and test AI output against source documents. In addition, structured peer critique and group discussion reinforce good practice, and every day closes with an applied AI task.

Who Should Take This Course

- Real estate developers, analysts and investment professionals.
- Feasibility, research and market analysis staff.
- Asset, portfolio and property managers.
- Finance and investment committee support staff.
- Consultancy, valuation and advisory professionals.
- Legal, compliance and data governance staff in property firms.

Generative AI for Real Estate Development & Investment Course Outlines

Day 1: Generative AI Foundations for Property Professionals

- How large language models generate text and where they fail.
- Model families, context windows and multimodal capabilities.
- Use cases across development, investment, leasing and asset management.
- Prompt fundamentals: clarity, context, constraints and output format.
- Setting tone and structure for professional property documents.

- Limitations: hallucination, bias, stale data and confidentiality risk.
- Workshop: writing a first prompt set for a property task.

Day 2: Prompt Engineering for Feasibility and Investment Work

- Role framing and task decomposition for complex property questions.
- Chain-of-thought and stepwise reasoning for feasibility logic.
- Structured output formats including tables, checklists and JSON.
- Building reusable prompt templates for recurring deliverables.
- Critiquing and iterating on AI drafts of investment memos.
- Sensitivity narrative generation for cost, rent and yield scenarios.
- Workshop: drafting and refining a feasibility study narrative.

Day 3: Document Analysis and Retrieval-Augmented Workflows

- Summarising title reports, lease agreements and planning documents.
- Extracting key terms, dates, obligations and break clauses.
- Retrieval-augmented generation using project document libraries.
- Building question-answer workflows over due diligence data rooms.
- Comparison of lease terms across multiple properties.
- Verification against source documents before use.
- Workshop: building a retrieval workflow over a sample data room.

Day 4: Market Research, Reporting and Automation

- Automating market briefs and comparable evidence summaries.
- Generating rent benchmarks and occupancy analysis narratives.
- Connecting AI tools to spreadsheets and reporting templates.
- Drafting investor updates, board papers and committee summaries.
- Quality control: checking figures, sources and consistency.
- Time-saving workflow design for recurring reporting cycles.
- Workshop: producing an automated investment report draft.

Day 5: Governance, Risk and AI Adoption Planning

- Confidentiality, data protection and permitted-use policies.
- Managing deal-sensitive information in AI tools.
- Governance, review and approval requirements for AI output.
- Vendor and platform selection, including enterprise and local options.
- Building an AI adoption roadmap for a property team.
- Training, change management and measuring productivity gains.
- Workshop: presenting an AI adoption plan before a review panel.

Conclusion

By successfully completing Generative AI for Real Estate Development & Investment Training Course, participants will have acquired the knowledge to apply generative AI safely and productively across development and investment work. They will understand prompt engineering, document analysis, retrieval workflows, reporting automation and governance controls, and they will know how to verify AI output before it reaches a decision. As a result, delegates work faster without weakening control. Gentex Training Center builds the programme around current tooling and practice.

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FAQs for the Generative AI for Real Estate Development & Investment course

Q1 What is the "Generative AI for Real Estate Development & Investment" course about?

It teaches property professionals to use generative AI tools in daily work. You learn prompt engineering, document analysis, retrieval workflows, market research automation and governance controls, then apply them to feasibility, leasing and investment tasks.

Q2 What are the key benefits of the "Generative AI for Real Estate Development & Investment" course?

You cut hours spent on drafting, summarising and reporting while keeping manual control of the figures. You also improve document review consistency, respond faster to investment committee requests, and introduce AI use with proper confidentiality and governance safeguards.

Q3 What skills will I gain from the "Generative AI for Real Estate Development & Investment" course?

You will gain generative AI prompt engineering, AI-assisted property document analysis, retrieval-augmented research and reporting workflows, and AI governance, validation and adoption planning.

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Q4 What tools, methods, or standards are covered in the "Generative AI for Real Estate Development & Investment" course?

The course covers large language models and multimodal assistants, prompt engineering techniques including role framing, chain-of-thought and structured output, retrieval-augmented generation over document libraries, AI integration with spreadsheets and reporting templates, and confidentiality, data protection and permitted-use governance controls.

Q5 How is the "Generative AI for Real Estate Development & Investment" course applied in real-world practice?

Graduates apply it to draft feasibility narratives, summarise title reports and leases, compare lease terms across portfolios, prepare market briefs and rent benchmarks, generate investment committee papers, and run an AI-assisted reporting cycle with documented review checks.