

SAIT AI SKILLS ACCELERATOR: THE 4-WEEK APPLIED AI ROADMAP



PROGRAM AT-A-GLANCE

80

TOTAL
LEARNING
HOURS

4 HOURS/DAY,
MON-FRI,
4 WEEKS

20

DAYS OF
INSTRUCTION

RAPID-PACED
SCHEDULE,
FOR WORKING
PROFESSIONALS

FROM CONCEPT
TO PROTOTYPE:
FUNCTIONAL AI
PROTOTYPE &
PROFESSIONAL PORTFOLIO,
15 APPLIED AI SKILL AREAS

THE 20-DAY LEARNING ROADMAP



THE 15 CORE APPLIED AI SKILLS

FOUNDATIONAL
& DATA SKILLS

ADVANCED PROMPT ENGINEERING
AI-POWERED SQL OPTIMIZATION
AUTOMATED DATA CLEANING
VECTOR DATABASE FUNDAMENTALS

ADVANCED ARCHITECTURE
& ANALYTICS

RETRIEVAL-AUGMENTED GENERATION (RAG)
AI AGENTS FOR DATA WORKFLOWS
MACHINE LEARNING FUNDAMENTALS
PREDICTIVE ANALYTICS

STRATEGY
& GOVERNANCE

DATA GOVERNANCE FOR AI
AI MODEL EVALUATION
AI-DRIVEN BUSINESS PROBLEM SOLVING
WORKFLOW AUTOMATION

VISUALIZATION
& STORYTELLING

AI-POWERED DATA VISUALIZATION
DATA STORYTELLING TECHNIQUES

THE CAPSTONE JOURNEY

- 1. DEFINE & DESIGN**
IDENTIFY BUSINESS PROBLEM,
SELECT AI ARCHITECTURE
(RAG, AGENTS, OR AUTOMATION)
- 2. BUILD & TEST**
DEVELOP PROTOTYPE,
INTEGRATE APIS,
EVALUATE PERFORMANCE
- 3. REFINE & PRESENT**
IMPROVE SOLUTION,
DEMONSTRATE FINAL
PROTOTYPE

PROFESSIONAL TECH STACK

LLMS & FRAMEWORKS

CHATGPT
CLAUDE
GEMINI
LANGCHAIN
LLAMAINDEX
CREWAI

DEVELOPMENT & DATA

PYTHON
SQL
VS CODE
PANDAS
POWER BI
SCIKIT-LEARN

AUTOMATION & DEPLOYMENT

N8N
MAKE
ZAPIER
STREAMLIT
HUGGING FACE SPACES

EVALUATION & SAFETY

LANGSMITH
RAGAS
MICROSOFT PURVIEW
NEMO GUARDRAILS