



Foundations of AI Case Studies

Agenda

01

Customer service

02

Medical diagnosis

03

Candidate screening

04

Empowered
education



Structure



- * Identify and correct the critical flaws in Gen AI use case implementation focusing on security, ethics, and bias.

Case 1

Objective: AI customer service agents

Strategy:

Data Collection: Aggregate customer interaction data from emails, chat logs, social media, and call center transcripts.

Model Training: Train an LLM using collected data and deploy the model.

Application: Integrate the trained LLM into tools such as chatbots, email response systems, and virtual assistants.

Monitoring and Feedback: Implement a feedback loop to monitor the model's responses and gather customer feedback for continuous improvement.

- * Identify and correct the critical flaws in Gen AI use case implementation focusing on security, ethics, and bias.

Case 2

Objective: AI powered medical diagnosis

Strategy:

Data Collection: Gather anonymized patient data from reputable sources (hospitals, research institutions).

Model Training: Train a deep learning model on the collected data.

Application: Integrate the trained model into diagnostic tools used by healthcare professionals

Monitoring and Feedback: Continuously monitor the model's performance and identify areas for improvement.

- * Identify and correct the critical flaws in Gen AI use case implementation focusing on security, ethics, and bias.

Case 3

Objective: AI developed candidate screening

Strategy:

Data Collection: Collect anonymized data on previous recruitment processes (job descriptions, applicant resumes, interview notes, hiring decisions).

Model Training: Train machine learning models for resume parsing and analysis and recommendation systems for candidate-job matching.

Application: Integrate the models into recruitment platforms to automate tasks like resume screening, candidate ranking, and scheduling. Utilize AI-powered chatbots for initial candidate screening and answering basic questions.

Monitoring and Feedback: Gather feedback from recruiters and candidates to identify areas for improvement and address any concerns.

- * Identify and correct the critical flaws in Gen AI use case implementation focusing on security, ethics, and bias.

Case 4

Objective: AI customized education

Strategy:

Data Collection: Gather student data, including individual learning history, grades, assessments, online learning interactions.

Model Training: Develop AI-powered tutors that can provide personalized feedback and support to students.

Application: Develop personalized learning pathways and resources for students based on their individual needs and learning styles.

Monitoring and Feedback: Gather feedback from educators to improve the effectiveness and efficiency of the AI-powered learning system.

Thank You!