Activity: ML Vs. LLMs

For each of the following scenarios, determine whether traditional ML or LLMs would be the *best* tool for the job.

1. **Diagnosing diseases from medical scans**
   A hospital wants to develop a system that can automatically analyze thousands of MRI scans and identify potential signs of specific diseases, like tumors. The system needs to be highly accurate in spotting visual abnormalities in the images.

   Your answer: In this scenario, we should use: □ ML □ LLM

2. **Building a better customer service chatbot**
   An e-commerce company wants to create a chatbot for its website. The chatbot must be able to understand a wide range of customer questions asked in conversational language—from "Where is my order?" to "Do you have this shirt in blue?"—and provide helpful, human-like responses.

   Your answer: In this scenario, we should use: □ ML □ LLM

3. **Predicting stock market prices**
   A financial firm wants to build a model that predicts whether a particular stock's price will go up or down tomorrow. The model will be fed historical stock data, including daily open, high, low, and close prices, as well as trading volume. The output should be a simple prediction: "up" or "down."

   Your answer: In this scenario, we should use: □ ML □ LLM

4. **Summarizing legal documents**
   A law firm has a massive archive of lengthy legal contracts and case files. They need a tool that can quickly read a 100-page document and generate a concise, accurate summary of its key points and clauses to save their lawyers valuable time.

   Your answer: In this scenario, we should use: □ ML □ LLM

5. **Filtering Spam Emails**
   An email provider needs to create a robust system to automatically identify and filter out spam emails from a user's inbox. The system needs to analyze incoming emails and classify them as either "spam" or "not spam" with very high accuracy and speed.

   Your answer: In this scenario, we should use: □ ML □ LLM