AI P3 Lab-3

Precision Prompting for Information Extraction

Lab-3

**Prompt:** *Extract the contact information from the following paragraph and present it as JSON with fields: name, phone, email, address.*

**Expected Output:**

**{**

**"name": "John Doe",**

**"phone": "(555) 123-4567",**

**"email": "john.doe@example.com",**

**"address": "123 Maple St, Springfield"**

**}**

### **Extract Resume Sections in Table Format**

**Prompt:  
 *Extract the following sections from this resume paragraph and present as a table with columns: Section, Content.***

**Paragraph:  
 “Jane Smith is a software engineer with 5 years experience in Python and Java. She graduated from MIT in 2018 and worked at Google. Skills include machine learning, cloud computing, and data analysis.”**

**Expected Output (Markdown Table):**

| **Section** | **Content** |
| --- | --- |
| **Name** | **Jane Smith** |
| **Profession** | **Software engineer** |
| **Experience** | **5 years** |
| **Skills** | **Python, Java, machine learning, cloud computing, data analysis** |
| **Education** | **Graduated from MIT in 2018** |
| **Previous Employer** | **Google** |

**Prompt:** *From the following paragraph, extract 5 main keywords related to technology and present them in a JSON list.*

**Paragraph:** “The rise of artificial intelligence and machine learning has transformed many industries, including healthcare, finance, and transportation.”

[

"artificial intelligence",

"machine learning",

"healthcare",

"finance",

"transportation"

]

### **Prompt:**

*Extract the following contact information from the paragraph below and format it as JSON with these fields: name, phone, email, and address.*

### **Expected output:**

{

"name": "Emily Rogers",

"phone": "720-555-7890",

"email": "emily.rogers@mail.com",

"address": "456 Oak Avenue, Denver"

}