## Cheat Sheet: Foundations of Generative AI and LangChai

Estimated time needed: 10 minute:

Package/Method	Description	Code Example
pip Install	Installs the necessary Python libraries required for the course.	Negative [19] dettil "question stand A.F." over [19] dettil "question stand A.F." over [19] dettil "question dettil A.F." over [19] dettil "question dettil A.F." over [19] dettil "question dettil A.F." over
warnings	Suppresses warnings generated by the code to keep the output clean.	Specif windsqu werdings (Tildewendings) (Specif)
Wattonal I.M	Facilitates interaction with BM's Watsons large language models.	Ten language, Jan apper lateranizati gratica, Tan. Seminari, S. Jan. Barriorat, professional and professiona
Ilm_model	hookes IBM Wanner LLM with a given prompt and parameters.	or linguistic (print), the commodation)  and (at * "Integration 2 de la statement"  "Seas of an integration 2 de la statement"  "Seas of an integration 2 de la statement  "Seas of an integration 2 de la statement  "Seas of an integration 2 de la statement  grantes (la statement)  grantes (la statement)  grantes (la statement)  printes (la s
GesParans	A class from the line, notices, at instantaneous module that provides parameters for controlling test generation, including max, new, claims, used, store, change temperatures, top y, and top y.	From Disputation, all antimization Super's Earlier/Enrander/Subsets on Confirmate Confirmation (Confirmation Confirmation
Rade Frompt	The simplest firm of prompting, in which you provide a short text or phrase to the model without special formatting or lawrendram. The model then generates a continuous based on patterns is be based during training.	parties of Content 125,  "Standard Standard 125,  "Standard
Zero-shot Prompt	A technique in which the model performs a task without any examples or prior specific training on that task. This approach tens the model's ability to understand four-notions and apply in homologie to a new content without demonstration.	prosp. = "Classify the Atlander statemen as trow or folias:  annuar:  annua
One-shot Prompt	Provides the model with a single example of the took before asking it to perform a similar sub. This technique gives the model a pattern to follow, improving its understanding of the deleted susper former and style.	params of Comments 20,  **Improved Comments 20
Fee-shot Frompt	Extends the non-that approach by providing analysis examples typically 2.5 before adding the model to profess the task. Those examples establish a deserve pattern and context, belong the model better understand the expected corpus format, 1956, and reasoning.	promote : "There are the companies of classifying mentions in steinments;  "There are the companies of classifying mentions in steinments;  "Control of the control of the control of classifying mentions in steinments;  "Control of the control of
Chain of thought (CoT) Prompting	Tocourage the model to break down complex problems into step-by-easy reasoning before arriving at a final answer. By explicitly tasks requiring multi-step reasoning.  The model to break down complex problems into step-by-easy reasoning before arriving at a final answer. By explicitly tasks requiring multi-step reasoning.	Prince of Company Assert 122, "Experiment" 0.5, "Experiment" 0.5, "Experiment 0.5, "Experim
\$elf-consistency	An advanced technique where the model generates multiple independent solutions or assesses to the same problem, the evaluates these different approaches to determine the next constitute or whilst result. This method helps improve accuracy by leaves gring the model's alony to approach problems from different angles.	promote : """" The first to the type plants of any specific or the determine the must consistent result.  **Transfer to the type plants of the determine the must consistent result.  ***Transfer to the determine the must consistent result.  ***Transfer to the determine the must consistent result.  ***Transfer to the determine the must consistent result.
PromptTemplate	A class from lengthain, one prompts models that acts as a resulted structure for generating prompts with dynamic values. It allows you to define a consistent formut while leaving planeholders for variables that change with each user case.	from languists, ore a prospet import Prospetimiquise suspices = "TTML im a displantable (content).""  // From the special and an adjustment of the special and adjustment of the special a
Romable Lambda	A clear from langthdus, core runnables that wraps a Python function into a LangChain runnable component. It's used to cruste transformation steps in a chain, especially for formatting or processing data.	from languista, care, committee lapare fromtalisation // Inflatin se frontists to somest prime fromtalising for fronting from the committee of
StrOutputParser	A class from langthsin, core-couped parters that simply extracts string outputs from LLM responses. It's commonly used as the fluid steps in a LingChain chain to resource a class string in returned.	Free langkhala, area adapet jammer sapart Strötspeldmener  // Comit is childs that returns a strong  // Comit is child that returns a strong

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		Description   Proceedings   Proceedings
LCL Pattern	LangChain Expression Language (LCEL) is a pattern for building LangChain applications using the pipe operator (1) for more fluctude composition. It offers better composability clearer visualization of data flow, and more flexibility when constructing complete chains.	// The Note Access  (**The Control of Contro

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