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Tech for Non-Tech: AI Prompt Engineering

Description

This article introduces AI prompt engineering, a crucial skill for effectively interacting with AI systems. By crafting precise prompts, users can enhance the quality and relevance of AI outputs in both personal and professional contexts. The article explores frameworks like AUTOMAT and CO-STAR for creating structured prompts, highlights applications in various industries, and provides examples for task management, information retrieval, and more. Learning prompt engineering empowers individuals to leverage AI tools efficiently, unlocking insights and automating tasks to improve productivity and decision-

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making.
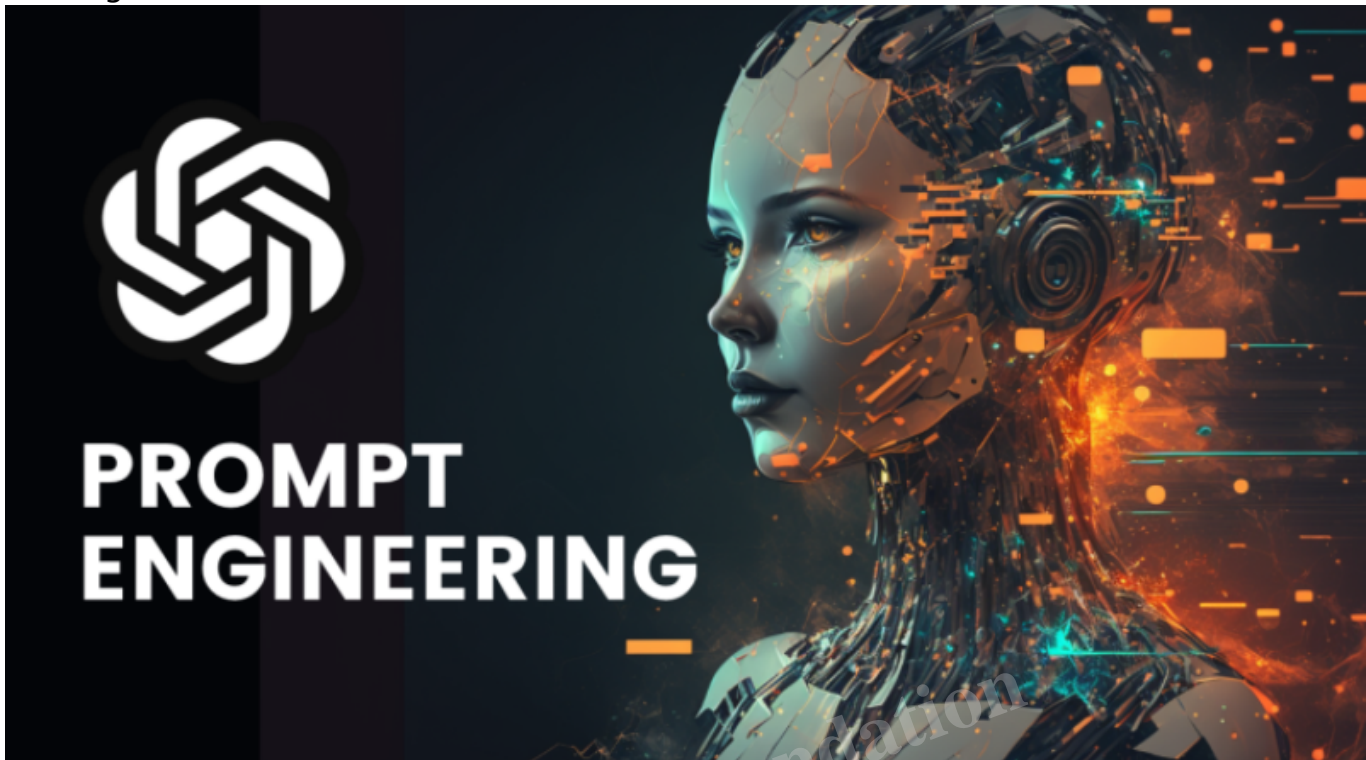
with AI: A Guide for Non-Tech IndividualsGetting Started

Introduction to AI

Definition and Basics

development of computer systems that can performArtificial Intelligence)AI(refers to the These tasks include understanding language,tasks usually requiring human intelligence. solving problems, and making decisions.recognizing patterns,

Overview of AI

through machines. It uses algorithms and dataAI is about simulating human intelligence efficiency and innovation across various fields.to learn and make decisions, enhancing

Examples of AI in Everyday Life

- **Smart Assistants**Siri, and Google Assistant help with tasks: Devices like Alexa, playing music, and answering questions.such as setting reminders,
- **Recommendation Systems**like Netflix and Amazon use AI to suggest: Platforms movies, or products based on your preferences.shows,

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- **Navigation Apps**or Waze provides real-time traffic updates and: AI in Google Maps route optimization.

Intended Audience

to no technical background who are curious aboutThis guide is for individuals with little life or explore professional erűoy AI. Whetherlooking to use AI tools in your personal to demystify AI and provide practical insights.applications, this article aims

Impact sÍA Understanding

processes, enhancing decision-making, andAI is transforming industries by automating efficiency and accuracy makes it a valuabledriving innovation. Its potential to improve in various domains, from healthcare to finance.tool

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What I Learned Pushing Prompt Engineering to the Limit | by Jacob Marks, Ph.D. | Towards D

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?gnireenignE What is AI Prompt

Definition

Explanation

specific inputs, known as prompts, to guide AIAI Prompt Engineering involves creating
By carefully crafting these prompts, users cansystems in generating desired responses.

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the output quality and relevance of AI models.influence

Purpose

Ability sfA Enhancing

is to improve the accuracy and relevance of AIThe main goal of prompt engineering clear and structured prompts, users can:outputs. By providing

- **Increase Precision**understands the context and intent, leading to: Ensure the AI more accurate responses.
- **Optimize Efficiency**need for multiple iterations by providing well-: Reduce the defined instructions.
- **Expand Applications**: Enable AI to perform a wider range of tasks by understanding diverse prompts.

can effectively leverage AI tools to meetBy mastering prompt engineering, individuals in both personal and professional settings.specific needs

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Prompt Engineering Ultimate Guide

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Importance of Learning AI Prompt Engineering

Empowerment

Enables Effective Use of AI Tools

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individuals to harness the full potential of AIUnderstanding prompt engineering allows tools. By crafting precise prompts, users can:

- **Maximize Efficiency**: Achieve desired results quickly.
- **Enhance Creativity**: Explore innovative solutions and ideas.
- **Improve Decision-Making**: Access accurate insights and information.

Adaptability

Better Interactions with Evolving TechnologyFacilitates

skills help users adapt to new tools andAs AI technology evolves, prompt engineering features. This adaptability:

- **Keeps Skills Relevant**proficiency with cutting-edge technology.: Ensures continued
- **Boosts Confidence**Reduces intimidation when using complex systems.:
- **Encourages Experimentation**Promotes trying new approaches and applications.:

can effectively navigate and benefit from theBy learning prompt engineering, individuals dynamic landscape of AI.

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Applications in Daily Life

Task Management

Scheduling Appointments

calendars, setting reminders, and sendingAI can streamline scheduling by managing ensuring you never miss an important meeting.notifications,

Organizing To-Do Lists

for today:]Task ١[,]Task ٢[,]Task etaerC.[٣ a to-do list

Prioritizing Tasks

urgency:]Task ١[,]Task ٢[,]Task ezitiroirP.[٣ the following tasks based on

Creating Reminders

birthdays, and deadlines, helping you staySmart assistants can remind you of tasks,

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organized and focused.

Creating Reminders

.[emiT] a reminder for]Task[on]Date[at teS˹

Scheduling Appointments

a meeting with]Name[on]Date[at eludehcS.[emiT]

Information Retrieval

Efficiently Finding Information

accurate and relevant information, savingAI tools can quickly search the web, providing you time and effort in research.

General Information

the latest news on renewable energy dniF.stnemecnavda

Specific Topics

points of the recent climate change ezirammuS.troper the key

Data and Statistics

unemployment rate in the United eveirteR.setatS the current

Research and Analysis

are the pros and cons of electric tahW?selcihev

Creative Assistance

Writing Support

content, and refining language, enhancing yourAI can assist in drafting emails, creating writing efficiency.

Email Drafting

Ramesh Meda

2024/07/28

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email to thank a client for their tfarD.̈kcabdeef a professional

Content Creation

for an article about the benefits of etirW.̈noitatidem an introduction

Editing Assistance

and tone of this paragraph:]insert evorpmI.̈[txet the clarity

Idea Generation

five blog post ideas about sustainable tsegguS.̈gnivil

Idea Generation

can spark creativity, offering inspiration forBy suggesting new concepts or solutions, AI projects and problem-solving.

Creative Writing

for a science fiction novel set in etareneG.̈0502 a plot idea

Marketing Strategies

ideas for promoting eco-friendly tsegguS.̈stcudorp innovative campaign

Business Development

new product features for a smart home esoporP.̈ecived

Event Planning

up with unique themes for a corporate emoC.̈taerter

simplify daily tasks, improve productivity, andThese applications demonstrate how AI can inspire creativity in everyday life.

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Prompt Engineering is not a Profession | Effective Software Design

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Professional Benefits

Productivity Enhancement

Automating Routine Tasks

emails and analyzing data, freeing up time forAI can handle repetitive tasks like drafting leads to increased efficiency and focus on coremore strategic work. This automation

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responsibilities.

Email Responses

requesting more information about our tfarD.ͤsecivres a response to a client

Data Entry

the latest sales figures from yllacitamotuA.ͤ[etaD] update the spreadsheet with

Appointment Scheduling

weekly team meeting every Monday at 10 eludehcS.ͤMA a

Task Reminders

to review the project dashboard at ε teS.ͤMP a daily reminder

Decision Support

Generating Insights and Predictions

insights and forecasts, aiding in informedAI analyzes large datasets to provide valuable professionals anticipate trends and make data-decision-making. This capability helps improving outcomes across various industries.driven choices,

Market Analysis

in the tech industry and predict future ezylanA.ͤstnempoleved recent trends

Financial Forecasting

based on current sales sͤetrauq next tciderP.ͤatad revenue

Customer Behavior

insights can be drawn from recent customer tahW?kcabdeef

Product Performance

a new product launch using historical tsaceroF.ͤatad the success of

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Prompt Engineering: Definition, Examples, Tips and More

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Importance of Good and Effective Prompts

Quality of Output

Clear Prompts Yield Accurate Responses

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intent, leading to precise and relevant outputs.Effective prompts help AI understand your you receive is aligned with your needs.This ensures that the information or assistance

Efficiency

Saves Time by Reducing Trial and Error

the need for multiple attempts, allowing you toCrafting well-defined prompts minimizes This reduces frustration and enhancesthe desired results quickly and efficiently.achieve productivity.

Example Structures of Effective Prompts

Specificity

Direct and Clear Prompts

- precise language to articulate what you need.Use
- **Example**for tsiL⸗use ⸗,sgod me about lleT⸗: Instead ofthe top five breeds of dogs ⸗.gnivil apartment

Contextual Clarity

Providing Necessary Background Information

- details to help the AI understand the context.Include relevant
- **Example**for stress relief in a workplace ezirammuS⸗:the benefits of meditation ⸗.gnittes

are both effective and efficient, leading toThese strategies ensure that your prompts better AI interactions.

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IBM: Introduction to Prompt Engineering | edX

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Frameworks: AUTOMAT and CO-STAR

AUTOMAT Framework

Step-by-Step Guide to Crafting Prompts

1. **A**ssess the Task: Identify what you need.
2. **U**Context: Consider background information.nderstand

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3. **T**the Prompt: Make it specific to your needs.ailor
4. **O**ptimize Clarity: Use clear and precise language.
5. **M**Results: Evaluate AI outputs for accuracy.onitor
6. **A**as Needed: Refine prompts based on feedback.djust
7. **T**Variations: Experiment with different phrasing.est

Assess the Task

the key factors influencing employee yfitnedI.ytivitcudorp

Understand Context

work, suggest tools to improve team neviG.noitaroballoc the recent increase in remote

Tailor the Prompt

meetings, focusing on ease of use and tsiL.ytiruces three software options for virtual

Optimize Clarity

diet for heart health in simple nialpxE.smret the benefits of a plant-based

Monitor Results

marketing strategies based on customer etaulavE.he effectiveness of current .scirtem engagement

Adjust as Needed

better target young adults interested in yfidoM.he social media campaign to .ytilibaniatsus

Test Variations

ad formats to see which drives more tnemirepxE.skcilc with different

CO-STAR Framework

Ensures Completeness and Relevance in Prompts

1. **C**larity: Use unambiguous language.
2. **O**rganization: Structure prompts logically.

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3. **S**pecificity: Be precise in your request.
4. **T**perspective. sfA houghtfulness: Consider the
5. **A**ccuracy: Provide correct information.
6. **R**elevance: Ensure content aligns with goals.

Clarity

main benefits of meditation for stress nialpxE. feiler the

Organization

step-by-step guide on setting up a home edivorP. krowten a

Specificity

of electric vehicles over gasoline tsiL. srac the top three advantages

Thoughtfulness

of single-use plastics and suggest redisnoC. sevitanretla the environmental impact

Accuracy

latest COVID-19 vaccination statistics etadpU. ediwdlrow me on the

Relevance

of AI in transforming the healthcare ssucsiD. yrtsudni the role

prompts that enhance AI interactions and These frameworks help in crafting effective outcomes.

Output Format Definition

Clarity in Results

Specifying Desired Output Formats

- **Example Formats**:
    - **List**: esicrexe a list of five benefits of edivorP:
    - **Summary** points of the article on climate ezirammuS: egnahc the main

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AI delivers information in the most useful wayDefining the output format ensures that the for your needs, enhancing clarity and usability.

Few-shot Learning

Concept

Using Minimal Examples to Teach AI Tasks

AI with a small number of examples to help itFew-shot learning involves providing the understand and perform a task effectively.

Practical Application

Training AI with Limited Data

- **Example**a new pattern by showing just a few instances.: Teaching an AI to recognize
- **Benefits**trains AI models even when large datasetsavailable, tñera : Efficiently making them adaptable and versatile.

Chain of Thought

Logical Progression

Guiding AI Through Sequential Reasoning

- a step-by-step approach to arrive at solutions.Encourages AI to follow

Examples

Problem-Solving Prompts with Structured Steps

- **Example**to solve a quadratic equation step by nialpxE :.pets how
- **Benefit**clear and logical explanations, enhancing: Helps the AI deliver understanding and accuracy.

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5 Prompt Patterns to Dominate Prompt Engineering | by Johan de Bruin | Medium

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Prompt Templates

Standardization

Pre-Designed Templates for Common Tasks

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- consistent structure for routine queries.Provide
- **Example**.ˢstniop]topic[in three key ezirammuSˢ:

Customization

Adapting Templates for Specific Needs

- Modify templates to suit unique situations.
- **Example**of]specific product[for]target tsiLˢ:ˑ[ecneidua three benefits

creation, ensuring clarity and efficiency.Using templates streamlines prompt

Retrieval Augmented Generation)RAG(

Enhancement

External Data to Improve AI ResponsesIntegrating

information retrieved from external sources,RAG combines AI-generated text with enhancing the depth and accuracy of responses.

Benefits

Increases Accuracy and Relevance

- **Improved Information**: Accesses up-to-date and specific data.
- **Contextual Relevance**more informed and precise answers, tailored to: Provides user queries.

Formatting and Delimiters

Importance

Structure and Symbols for Clear CommunicationUsing

- are organized and easy for AI to interpret.Ensures prompts

Examples

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Applying Delimiters to Separate Instructions

- **Example**١. Cardiovascular health; ٢. Mental tsiL⁼:the top three benefits of exercise: ⁼htgnerts well-being; ٣. Muscle
- **Benefit**different parts of the prompt distinctly.: Helps the AI understand and process

The Multi-Prompt Approach

Iterative Refinement

Using Multiple Prompts for More Accurate Results

- addressing nuances through successive prompts.Refines AI outputs by

Techniques

Combining Prompts for Complex Tasks

- **Example**the benefits of ebircseD⁼: Start withdoes woH⁼followed by ⁼,noitatidem ?sucof meditation improve
- **Benefit**into manageable parts, enhancing clarity and: Breaks down complex queries precision.

Prompt Templates by Industry/ProfessionEffective

Healthcare

Diagnosing Symptoms, Suggesting Treatments

- **Prompt**for]specific symptom[and their tsiL⁼:⁼ssenevitceffe common treatments

Finance

Analyzing Market Trends, Financial Forecasting

- **Prompt**market[and predict potential ezirammuS⁼:recent trends in the]specific ⁼.semoctuo

Education

Creating Personalized Learning Plans

- **Prompt**plan for a student struggling with ngiseD⁻:˙[tcejbus] a learning

Marketing

Developing Campaign Strategies, Analyzing Data

- **Prompt**for a product launch targeting eniltuO⁻:a marketing strategy ˙[cihpargomed]

Customer Service

Enhancing Automated Support Responses

- **Prompt**for common customer inquiries about etaerC⁻:a response template ˙[ecivres/tcudorp]

across various fields leverage AI effectively.These templates help professionals

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Conclusion

AI Prompt Engineering Benefits and ApplicationsRecap of

with AI systems, improving accuracy,AI prompt engineering enhances communication industries like healthcare, finance, education,efficiency, and applicability across marketing, and customer service.

Encouragement

Readers to Explore and Apply Prompt EngineeringMotivating

its potential in your personal and professionalDive into AI prompt engineering to unlock different techniques to see tangible benefits.life. Experiment with

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Book Recommendations

- Intelligence: A Guide to Intelligent laicifitrAɓy Michael Negnevitsky šmetsyS
- Intelligence and the Problem of namuHɓy Stuart ľortnoC Compatible: Artificial Russell
- šeigetartS Paths, Dangers, :ecnegilletnirepuSɓy Nick Bostrom

CATEGORY

1. Self Learning
2. TechForNonTech

POST TAG

1. #AI
2. #AIFrameworks
3. #AIInsights
4. #AUTOMAT
5. #Automation
6. #COSTAR
7. #CreativeAssistance
8. #EffectiveCommunication

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9. #InformationRetrieval
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12. #Productivity
13. #ProfessionalDevelopment
14. #PromptEngineering
15. #TaskManagement
16. #TechForNonTech

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