

**AMITY NIVERSITY ONLINE, NOIDA, UTTAR PRADESH**

In partial fulfilment of the requirement for the award of degree of Master of Computer applications (MCA)

AI Personal Assistant for Automated Social Media Content Creation and Scheduling Using n8n

**Guide:**

Name: Maha Hassan

Designation: Mother

**Submitted By:**

Name: Haitham Mohamed

Enrolment. No: A9929723000957(el)

ABSTRACT

The abstract should be 500-1000 words. An abstract is an overview or a brief summary of project

work, which helps the reader to ascertain the purpose of carrying out the project work. It acts as

a stand-alone entity for the complete project work.

Keywords: [Add keywords here].

DECLARATION

I, Haitham Mohamed Ibrahim, a student pursuing Masters of computer application at Amity University Online, hereby declare that the project work entitled " AI Personal Assistant for Automated Social Media Content Creation and Scheduling Using n8n" has been prepared by me during the academic year 2025 under the guidance of Maha Hassan, My mother that was a close guide to me on this project. I assert that this project is a piece of original bona-fide work done by me. It is the outcome of my own effort and that it has not been submitted to any other university for the award of any degree.

Haitham Mohamed

CERTIFICATE

This is to certify that Haitham Mohamed of Amity University Online has carried out the project work presented in this project report entitled " **AI Personal Assistant for Automated Social Media Content Creation and Scheduling Using n8n**" for the award of (Master of computer applications) under my guidance. The project report embodies results of original work, and studies are carried out by the student himself. Certified further, that to the best of my knowledge the work reported herein does not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University.

Maha Hassan

Introduction

* Introduction subheadings
* In literature review the subheadings
* Research methodology subheadings

<List of tables >

<List of figures >

<CHAPTER 1: INTRODUCTION TO THE TOPIC>

[FONT 12" AND DOUBLE SPACING]

At least 5 pages.

A complete explanation of the topic.

May include Company profile.

Justification for "why this topic has been selected."

<CHAPTER 2: review of literature>

Add some tables and some explanations

CHAPTER 3. RESEARCH OBJECTIVES AND METHODOLOGY

RESEARCH OBJECTIVES and methodology

&lt;The objectives of a research project summarize what is to be achieved by the study.> At least 3 objectives.

[ Times new Roman, FONT 12" AND DOUBLE SPACING]

Bullets to be used

RESEARCH PROBLEM

RESEARCH DESIGN

<CHAPTER 4: Data analysis results and interpretation>

-Like how much would this cost if n8n was offline from purchasing the pc as front investment and electricity bill vs online api

-api of freepik for flux-dev and kling for automation, as each video of automation uses from 5-10 video clips eaching costs $0.2

- openai api quota

- expected cost from Instagram, youtube and tiktok from automation

- users following without manual work

CHAPTER 5. FINDINGS AND CONCLUSION

<ATLEAST 3 PARAGRAPHS>

< HIGHLIGHT ALL FINDINGS>

FOR EXAMPLE:

By the summation of all the different sector of Industries in survey, Neelkamal has the largest Market Share of approximately 34.6 % due to the diversity of Neelkamal products. The main competitor of Neelkamal is Supreme as they have approx. 14.78 % of share in the product.

< EXPLAIN THE MAIN THINGS CONCLUDED>

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CHAPTER 6. RECOMMENDATIONS AND LIMITATIONS OF THE STUDY

RECOMMENDATIONS

IN POINTS

ATLEAST 10-15 POINTS

[FONT 12" AND DOUBLE SPACING]

Fhint of my limitations:

* The ai system prompt: ai always had his own mind and preference when dealing with user's prompt, and tends to hallucinate a fake response, so with extensive testing and experimenting with different ai system prompt the ai could focus more in giving an actual response.
* Sometimes the ai would just skip triggering ai agent to make the request of the user, so I had to prompt engineer the chain of thought and tree of thought to guide the ai to use proper ai agents even if the user was ambiguous.
* Api was very expensive specially if each video can trigger tens of requests, any mistake can rack up a high bill of unused output, so carefully testing locally first then carefully checking every node was key to success.

BIBLIOGRAPHY

Research paper:

< APA format>

For Example:

Kim, M. S., & Hunter, J. E. (1993). Attitude-behavior relations: A meta-analysis of attitudinal relevance and topic. Journal of Communication, 43(1), 101–142.

WEBSITES:

<do not include any open-source website like Wikipedia, etc. .

For example:

<http://www.nilkamal.com/Material_Handling/PP_Corrugated.aspx>

BOOKS:

&lt;Author name>, &lt;book name>, &lt;publication>, &lt;edition and volume>, &lt;page number>