

READ THIS FIRST

What this file is. A format template for the final project report of IGNOU MCSP-090 Project Work (M.Sc. Artificial Intelligence and Machine Learning, 12 credits, Semester IV, marked out of 200). It gives a page order, the contents of each chapter, empty table shells and sentence frames. It contains no data, no results and no code.

Why there are no numbers. Every result in your report must come from your own data and your own runs. A number copied from a template or another report is invented data, and IGNOU treats copied work as unfair means.

Status of the rules. As of 06 October 2026 IGNOU has not published MCSP-090 project guidelines. The MSCAIML Programme Guide (July 2026) says they will be provided on the University website. Items marked **[SOCIS precedent]** follow how the School runs the MCA project (MCSP-232 guidelines); they are shown so you know what SOCIS has asked for before, not because MCSP-090 requires them. When the MCSP-090 guidelines appear, follow them.

Built on. The eight project outcomes in the MSCAIML Programme Guide: define a real-world AI/ML problem; structured literature survey; collect, preprocess and analyse datasets; apply suitable ML or DL algorithms; evaluate with appropriate metrics; interpret and suggest improvements; prepare a professional technical report; present and defend in the viva voce. Each chapter below names the outcome it evidences.

Spacing and length. IGNOU has not set a page count, spacing or font for MCSP-090. This template uses 12 pt text. The MCA project guidelines ask for single line spacing on A4, one side, with all pages, tables and figures numbered [SOCIS precedent]. Confirm before printing.

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A. Page Order

#	Item	Notes
1	Cover page	Layout shell on the next page [SOCIS precedent layout]
2	Original approved proforma and approved synopsis	Bind in the originals if IGNOU asks for them, as MCA does [SOCIS precedent]
3	Guide bio-data, signed and dated	[SOCIS precedent]; confirm for MCSP-090
4	Certificate of Originality, signed and dated by student and guide	Use the wording IGNOU issues for MCSP-090. In MCA the guide's signature must match the proforma [SOCIS precedent]
5	Acknowledgements	Optional
6	Abstract	Not prescribed by IGNOU for MCSP-090; include only if the guidelines or your guide ask
7	Table of contents with page numbers	Every heading and page number must match
8	List of figures, list of tables, abbreviations	
9	Chapters 1 to 9	Section B
10	References	One style used consistently
11	Appendices	Code listing, repository link, environment file, extra results

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Cover Page Shell [SOCIS precedent layout]

MCSP-090

[TITLE OF THE PROJECT, EXACTLY AS APPROVED]

by

[Student's full name]

Enrolment No.: []

Under the guidance of

[Guide's full name]

Submitted to the School of Computer and Information Sciences, IGNOU, in
partial fulfilment of the requirements for the award of the degree
Master of Science (Artificial Intelligence and Machine Learning)

[Year of submission]

Indira Gandhi National Open University, Maidan Garhi, New Delhi 110068

*No IGNOU logo in this template. The MCA guidelines print a sample cover in this order;
MCSP-090 may differ.*

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B. Chapter by Chapter

Chapter 1. Problem Definition and Objectives

Evidences outcome: 1 (identify and define a real-world AI/ML problem)

What to write: The setting, the problem in one precise sentence, why it matters (every figure cited), the ML task type (classification, regression, clustering, forecasting, NLP, vision or reinforcement learning), objectives worded neutrally, and the scope.

Sentence frames (replace every [] with your own result):

- This project addresses [problem] for [users or setting], framed as a [task type] problem.
- The objectives are to [verb] [what], to [verb] [what] and to [verb] [what].

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Chapter 2. Literature Survey

Evidences outcome: 2 (structured literature survey)

What to write: Group sources by theme, record what each did and how it was evaluated, then state the gap your project addresses. Only sources you have read.

Table 2.1 Literature matrix (shell)

Source	Problem	Method	Data or environment	Metric	Gap noted

Sentence frames (replace every [] with your own result):

- [Author, year] used [method] on [data] and reported [metric]; it did not examine [aspect].

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Chapter 3. Data or Environment

Evidences outcome: 3 (collect, preprocess and analyse datasets)

What to write: Where the data came from, the licence or permission, size, features, target, how missing values, duplicates and outliers were handled, how the data was split, and what exploratory analysis showed. For a simulation, describe the environment and its settings instead. State that no personal data was collected, or how consent and anonymisation were handled.

Table 3.1 Dataset description (shell)

Source	Licence or permission	Records	Features	Target	Train / validation / test split

Table 3.2 Preprocessing log (shell)

Step	What was done	Records affected	Reason

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Chapter 4. Methodology

Evidences outcome: 4 (apply suitable ML or DL algorithms)

What to write: Each algorithm and baseline, why it suits the task, architecture or key settings, and the training procedure. Link each method to the MSCAImL course that teaches it.

Table 4.1 Model configuration (shell)

Model	Type	Key settings	Why chosen
Baseline: []			
[Model 1]			
[Model 2]			

Table 4.2 Hyperparameter search (shell)

Hyperparameter	Values tried	Method (grid / random / manual)	Chosen value

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Chapter 5. Experimental Setup

Evidences outcome: 4 and 5

What to write: Hardware, software and library versions, random seeds, validation scheme (for example K-fold cross-validation, MCS-084 Unit 11), and how test data was kept unseen until final evaluation.

Table 5.1 Environment (shell)

Item	Version or detail
Python	
Libraries	
Hardware	
Random seeds	
Validation scheme	

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Chapter 6. Results and Evaluation

Evidences outcome: 5 (evaluate model performance using appropriate metrics)

What to write: Results on the test set for every model, with the metrics chosen in your synopsis, reported as mean and spread where runs were repeated. Figures: learning curves, confusion matrix or residual plot as the task needs. Report what happened, not what you hoped.

Table 6.1 Test-set results (shell)

Model	[Metric 1]	[Metric 2]	[Metric 3]	Runs
Baseline: []				
[Model 1]				
[Model 2]				

Table 6.2 Confusion matrix (shell, classification only)

	Predicted [class A]	Predicted [class B]
Actual [class A]		
Actual [class B]		

Sentence frames (replace every [] with your own result):

- On the test set, [model] achieved a [metric] of [], compared with [] for the baseline.
- The difference was [statistically significant / not statistically significant] at the [] level ([test], $p = []$).
- Across [] runs the standard deviation of [metric] was [], indicating [stable / variable] behaviour.

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Chapter 7. Interpretation, Limitations and Improvements

Evidences outcome: 6 (interpret results and suggest improvements)

What to write: Why the results came out as they did, where each model fails (error analysis), threats to validity, and improvements tested or proposed.

Sentence frames (replace every [] with your own result):

- [Model] performed [better / worse] on [subset or scenario] because [reason supported by your analysis].
- A limitation of this study is [], which means the results [may not / do] apply to [].

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Chapter 8. Ethics and Responsible AI

Evidences outcome: 6; topic area "AI Ethics and Responsible AI" in the guide

What to write: Data consent and privacy, bias checks, transparency of the model's decisions, and limits on deployment. MCS-072 Unit 12 covers these themes.

Table 8.1 Ethics checklist (shell)

Question	Your answer
Personal data collected? How protected?	
Bias checked across which groups or conditions?	
Can the model's decisions be explained to a user?	
What must be true before real-world use?	

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Chapter 9. Conclusion and Future Scope

Evidences outcome: 1 and 6

What to write: Answer each objective in turn with the evidence from Chapter 6, then list future work. No new results in this chapter.

Sentence frames (replace every [] with your own result):

- Objective [n] was to []; the results in Table [] show that [].

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C. Viva Preparation by Chapter

The guide's eighth outcome is to present and defend the project in the viva voce. In the MCA project the examiner may ask for a demo and for code to be written on the spot [SOCIS precedent].

Chapter	Be ready to show or explain
1	The problem in one sentence and why ML is needed
2	Two sources closest to your work and how yours differs
3	Where the data came from and every preprocessing step
4	Why each algorithm, and what each key setting does
5	How you kept test data unseen; library versions
6	A live run, and every number in your results table
7	Your worst failure case and why it happened
8	Privacy and bias decisions
9	Which objective was hardest to meet

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D. Before You Print and Bind

- Title is word for word the approved title, on the cover, the certificate and every header.
- Every one of the eight guide outcomes is visibly evidenced in a chapter.
- Every number in the report comes from your own runs, and can be reproduced from your code, seeds and versions.
- All pages, tables and figures are numbered, and the table of contents matches.
- Documents and signatures required by the MCSP-090 guidelines, once issued, are attached: [].

- Submission route, address and dates checked against the MCSP-090 guidelines or your Regional Centre: [].

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