# Systematic Literature Review (SLR) in Computer Science

## Instructions:

1. Choose ONE of the case studies below and conduct a Systematic Literature Review (SLR) based on the provided template.
2. Your review should be structured following the provided sections and should be based on credible research sources.
3. Ensure that you define clear research questions, apply inclusion and exclusion criteria, extract relevant data, and synthesize findings to draw conclusions.
4. Use academic databases such as IEEE Xplore, ACM Digital Library, Springer, or Scopus for your literature search.
5. Your final document should be well-structured, properly formatted, and should include references to all reviewed papers.

## Case Study Options:

1. Cybersecurity Threats in Cloud Computing: Analyze common security threats, attack vectors, and mitigation strategies.
2. Applications of Artificial Intelligence in Healthcare: Review AI-based technologies in medical diagnosis, patient monitoring, and treatment recommendations.
3. Blockchain for Secure Digital Transactions: Investigate the role of blockchain in financial security, smart contracts, and fraud prevention.
4. Machine Learning for Predictive Analytics: Explore the use of machine learning models in forecasting trends, detecting anomalies, and improving decision-making.
5. Edge Computing in IoT Systems: Examine the advantages, challenges, and applications of edge computing in smart devices and industrial IoT.

# Systematic Literature Review (SLR) Template

## 1. Introduction

Research Objective:

(Define the objective of your study based on the chosen case study.)

## 2. Research Questions

RQ1:

RQ2:

RQ3:

## 3. Data Collection

### Sources Used:

(List the research papers, reports, or other sources used.)

## 4. Inclusion & Exclusion Criteria

### Inclusion Criteria:

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### Exclusion Criteria:

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## 5. Data Extraction & Synthesis

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| --- | --- | --- | --- |
| **Criteria** | **Study 1** | **Study 2** | **Study 3** |
| Key Findings |  |  |  |
| Methodology Used |  |  |  |
| Strengths |  |  |  |
| Weaknesses |  |  |  |
| Reference (Source) |  |  |  |

## 6. Findings & Discussion

(Summarize key insights, patterns observed, and significant contributions from the literature.)

## 7. Conclusion & Recommendation

(Based on the findings, provide a conclusion and possible future directions for research.)