**Research Paper Format**

**1. Title**

**2. Abstract**

A brief summary of the research, typically 150-300 words.

* **Background:** A short introduction to the topic and why the research is important.
* **Objective:** The main research question.
* **Methodology:** A brief description of how the research was conducted.
* **Results:** A summary of the key findings.
* **Conclusion:** A brief statement of the implications of the research.

**Keywords:** A list of key terms or phrases that describe the research topic.

**3. Introduction**

Introduces the topic and provides background information to help the reader understand the context.

* **Problem Statement:** Clearly define the research problem or question.
* **Objectives:** State the purpose of the research.
* **Significance:** Explain why the research is important and relevant.
* **Overview of Structure:** Briefly outline how the paper is organized.

**4. Literature Review (or Related Work)**

* A review of existing research related to the topic.
* Summarize key findings from other studies, highlighting gaps or unresolved questions in the literature.
* Establish the theoretical framework or context for your study.

**5. Methodology**

Detailed description of how the research was conducted.

* **Research Design:** Explain the overall approach. Detail the algorithms, frameworks, and tools used in the research.
* **Detailed Description of Methods:** If you used specific algorithms, explain how they work, why you chose them, and any modifications you made. For systems involving data, explain data collection (e.g., surveys, experiments, interviews, databases). Discuss how the data is cleaned and transformed before being used in the system.
* **Evaluation**: Discuss how the system's performance is evaluated (evaluation metrics).

**6. Results**

* Present the findings of your research.
* Include relevant data, often with tables, figures, and charts to illustrate key results.

**7. Discussion**

* Analyze and interpret the results in relation to the research question.
* **Comparison:** Compare your findings to previous research and literature.
* **Implications:** Discuss the significance of your findings and their potential impact.
* **Limitations:** Address any limitations or constraints in the research.
* **Future Research:** Plans for further work.

**8. Conclusion**

* Summarize the main findings of the research.
* Restate the significance of the research and its contributions.
* Highlight any final thoughts or recommendations.

**9. References (or Works Cited)**

* A list of all the sources cited in the paper.
* Follow the appropriate citation style (IEEE).