Paper Title\* (6-10 pages)

Name: Email:

*Abstract*—

*1-2 sentences: How significant of the research questions you are proposing and any existing challenges related to your work? Pretty much like summarizing sections I-III*

*3-4 sentences: Any novelty in your work, or outline how you implement your work. Like, summarize section IV.*

*5-6 sentences: Summarize the most promising results in Section V and explain the implications or potential applications of the results discussed in Section VI.*

Keywords—component, formatting, style, styling, insert (key words)

# Introduction (*Heading 1*)

This section describes the background and significance of the research questions.

# Research Questions

Please explicitly describe the research questions.

# Related Work

Please describe previous work in the research questions.

# Methods

Before you begin to format your paper, first write and save the content as a separate text file. Complete all content and organizational editing before formatting. Please note sections A-D below for more information on proofreading, spelling and grammar.

Keep your text and graphic files separate until after the text has been formatted and styled. Do not use hard tabs, and limit use of hard returns to only one return at the end of a paragraph. Do not add any kind of pagination anywhere in the paper. Do not number text heads-the template will do that for you.

## Data Acuqisition

Please describe how you acquire the data.

## Data Cleaning and Labeling

Please describe how you clean and label the dataset.

## Feature Engineering

Please describe how you implement feature extraction and representation.

## Model Development

Please describe how you develop the models, including SVM, Decision Trees, Linear Regression, and Neural Networks.

## Model Training

Please describe how you train the model, especially any optimization strategies you adopt for hyperparameters and model parameters.

## Model Evaluation and Validation

Please describe the strategies you used for evaluation and validation of the trained models.

## Model Deployment

Please describe how you deploy the models to web.

# Results

Please show your results as below.

## Mode Performance in Evaluation

#### Please show the prediction performance of the models during evaluation and validation.

## Feature Importance

Please show how the features contribute to the model performance.

## Runtime Monitoring

Find other 2 classmates and let them use your web-based models. Each of them should create a testing data sample to test your web-based model performance. Please describe your web-based model’s testing performance here.

# Discussion

## Answers to Research Questions

Did your results answer the research questions. If yes, how much is being answered? If no, why?

## Limitations of your research.

Please explain any limitations of your research

## Lessons Learned

Please describe what kind of lessons you learned from the final project.

##### Acknowledgment

Please acknowledge your classmates and any others helped you during the research process..

##### References

The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]—do not use “Ref. [3]” or “reference [3]” except at the beginning of a sentence: “Reference [3] was the first ...”

Number footnotes separately in superscripts. Place the actual footnote at the bottom of the column in which it was cited. Do not put footnotes in the abstract or reference list. Use letters for table footnotes.

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For papers published in translation journals, please give the English citation first, followed by the original foreign-language citation [6].

1. G. Eason, B. Noble, and I. N. Sneddon, “On certain integrals of Lipschitz-Hankel type involving products of Bessel functions,” Phil. Trans. Roy. Soc. London, vol. A247, pp. 529–551, April 1955. *(references)*
2. J. Clerk Maxwell, A Treatise on Electricity and Magnetism, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68–73.
3. I. S. Jacobs and C. P. Bean, “Fine particles, thin films and exchange anisotropy,” in Magnetism, vol. III, G. T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271–350.
4. K. Elissa, “Title of paper if known,” unpublished.
5. R. Nicole, “Title of paper with only first word capitalized,” J. Name Stand. Abbrev., in press.
6. Y. Yorozu, M. Hirano, K. Oka, and Y. Tagawa, “Electron spectroscopy studies on magneto-optical media and plastic substrate interface,” IEEE Transl. J. Magn. Japan, vol. 2, pp. 740–741, August 1987 [Digests 9th Annual Conf. Magnetics Japan, p. 301, 1982].
7. M. Young, The Technical Writer’s Handbook. Mill Valley, CA: University Science, 1989.

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