Machine learning application to study brain images to enhance performances

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The purpose of this document is to serve as an example of the proper style for lab reports.

# Introduction

In your introduction, summarize the purpose of your experiment.

# Theory

Give the background of the experiment. Include all equations, defining all variables. Be sure to include references. You might refer to a book[[1]](#endnote-1), a web site[[2]](#endnote-2), or a paper[[3]](#endnote-3).

# Experiment

Here you give the details of what you did. If you deviated from what was expected, explain why. Include diagrams of the apparatus.

# Results

Give your results.

Table 1. An example table of fictitous data. V is the voltage measured across an imaginary resistor, I is the measured current.

|  |  |  |
| --- | --- | --- |
| Run # | V (mV) | I (A) |
| 1 | 25 | 0.10 |
| 2 | 59 | 0.22 |
| 3 | 100 | 0.40 |

Figure 1. Current versus voltage for an imaginary resistor. The error in the current measurements is assumed to be 0.05 A.

# Analysis/Discussion

Describe your calculations, and give the results. Give as many details as are practical (within 4 page limit). Typically one example calculation is acceptable. You should refer back to the equations from the Theory section, no need to repeat them again. Discuss errors and problems.

# Conclusions

Repeat your final results again, with error. Describe any problems. Give a thoughtful discussion of sources of error.[[4]](#endnote-4) Did you satisfy the purpose of the experiment, as stated in the Introduction?

1. D. Halliday, R. Resnick, J. Walker, *Fundamentals of Physics*, (Wiley, Jefferson City, 2011). [↑](#endnote-ref-1)
2. American Institute of Physics, “AIP Style Guide”, accessed 1/2012, http://www.aip.org/pubservs/style/4thed/toc.html. [↑](#endnote-ref-2)
3. R. Verre, K Fleischer, O. Ualikbe, I. V. Shvets, Appl. Phys Lett., **100**, 31102, (2012). [↑](#endnote-ref-3)
4. R. Forrest, Laboratory Report Checklist, 2012. [↑](#endnote-ref-4)