

## Insight ML Code Review checklist:

### **REPO STYLE / STRUCTURE:**

☐ README is written and formatted using Markdown.

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☐ README contains an introduction to the project along with setup and installation instructions.

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☐ README has usage instructions with example inputs and outputs included so users can test their installation.

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☐ Code is easily installed from the command line and has a simple example that runs.

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☐ Repo follows the style structure from the Insight Project Framework.

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☐ The use of third-party GitHubs and libraries are well documented.

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☐ Each feature lives on a separate appropriately named branch in the format 'dev-feature\_name-date\_of\_creation', i.e. dev-readme\_requisites-20180905.

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☐ All feature branches are separate from Master and are regularly merged back.

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### **SOURCE CODE DOCUMENTATION:**

☐ The code runs successfully and correctly outputs what it intended to output.

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☐ Code looks appealing and formatting is uniform and consistent (spacing, line breaks, indentation, brackets, braces, etc...)

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☐ TODOs are removed from src code (they may be in a separate TODO list).

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☐ The same code is not repeated elsewhere in the script and there are no redundant nor duplicate functions.

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<input type="checkbox"/>	Code is self-explanatory without any unnecessary complexity.
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<input type="checkbox"/>	All advanced functions are commented informatively and concisely.
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<input type="checkbox"/>	No dead code is committed and unnecessary logging or debugging code has been removed. (May have a file that will not be committed using .gitignore)
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<input type="checkbox"/>	All existing comments describe the intent of the code, and include any hacks, workaround and temporary fixes.
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<input type="checkbox"/>	There are no one-letter variables (except for counter variables) and global variables be replaced.
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<input type="checkbox"/>	Variables, functions and classes have meaningful names that are not misleading.
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<input type="checkbox"/>	Dependencies are justified and there aren't any unnecessary dependencies.
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<input type="checkbox"/>	Loops have a set length and correct termination conditions.
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<input type="checkbox"/>	At least one unit test is used to isolate a function from the rest of the codebase.
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<input type="checkbox"/>	Standard functions are used as much as possible (instead of creating them from scratch).
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<input type="checkbox"/>	Employees at company demos could easily follow along with this GitHub code.
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Sources:

Insight Data Science

<https://nyu-cds.github.io/effective-code-reviews/03-checklist/>

<https://blog.goyello.com/2013/01/21/top-9-principles-clean-code/>