Kaggle Challenge - Present, Launch and Maintain the System

WE'LL COVER THE FOLLOWING

6. Present the Solution

Now comes the phase where you need to showcase your results, to present your solution. Some handy pointers:

- Highlight what you have learned
- What worked and what did not
- What assumptions you made
- Your models limitations
- Create compelling presentations: use clear visualizations, easy to remember statements, avoid lots of text and **use the power of story-telling**!
- Use terminology that is tailored to the technical level of the audience.

> 📌 **Side Note:** Say this housing example was a real project. The final performance of the model could be used to understand if ML based solution can be used to replace human experts in the loop. Automating these tasks is useful because it means that the experts get to have more free time which they can dedicate to more interesting and productive tasks.

7. Launch, Monitor, and Maintain the System

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Say we were working on a real project and after your awesome presentation, you got the approval to deploy your solution for production. Now you'd need to get it ready for production. You can start doing this by plugging in production data as input to your model and writing tests.

When ML models are in production, it is crucial to have monitoring in place in order to check the system's performance at regular intervals and trigger alerts when things go bananas.

Finally, you will likely need to train your models at regular intervals using fresh data. In order to avoid doing the same tasks over and over again, strive to automate this process as much as possible. Automating means that you can run updates at exact intervals without procrastination issues and your system will stay up-to-date and show bad fluctuations over time.

Of course, these steps are not needed if you are just building a model, say for a Kaggle competition. In that case you can stop at fine-tuning!

Congratulations, you have now successfully learned to perform exploratory analysis, prepare the data, create and evaluate multiple machine learning models and fine-tune your best model! 🙌