

15-400 Spring 2018 Bi-Weekly Report 1  
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**Major Changes:**

No major changes in the goal or implementation of my project.

**What You Have Accomplished Since Your Last Meeting:**

I have completed two tasks:

- 1) Finished the `controller` part of OtterTune, which now could do experiments with different databases, save all results into JSON files and upload the JSON files to the OtterTune's server.
- 2) Added validation methods to validate data uploaded by user's to the OtterTune server.

**Meeting Your Milestone:**

Yes. I have met the Jan.31 milestone.

**Surprises:** No surprises found so far. Hope I'll get some good ones.

**Looking Ahead:**

Over the next two weeks, I'll focus on building the part for experiments with machine learning pipelines. I'll also start to work on my research topic: carrying knobs configuration information from an older version of a certain database to a new one.

**Revisions to Your Future Milestones:**

Yes. My original proposal focuses on building the ML pipeline. Actually we now have a very basic ML pipeline. So I'll start doing experiments with knobs from different versions of database first and then see if the current ML methods work well enough. If they don't work well, I'll try to explore new methods; if the existing ML pipeline happened to be good, I'll refine them and see how to improve them.

**Resources Needed:**

Yes. I have got all the resources I need.