Demand Prediction: EDA

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Final Updates

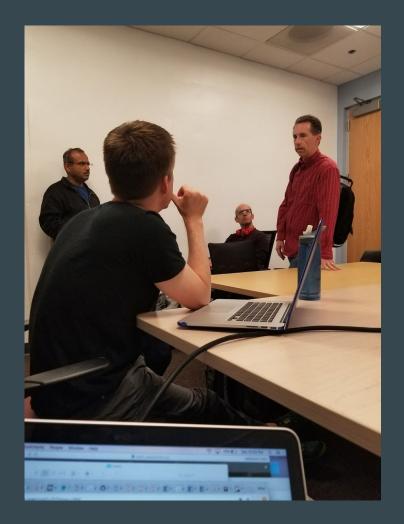
- Locally Based APIs
- Documentation
- Benchmarking API methods
- Data Visualizations

Challenges

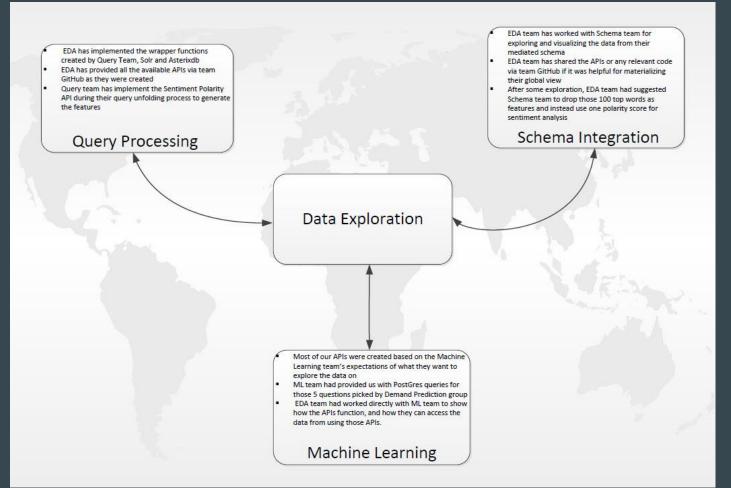
- Data Integration
 - Knowing the data sources, understanding the business objectives and deliverables.
- Data Locales
 - Data migrating from local computers to linode, and to UCSD servers
- Querying Solr
 - Solr wrapper provided by query team
- Working in parallel
 - Providing APIs for other teams as we create; team github; and weekly meetings

"If you are working on something for more than 5 hours, you are doing it wrong"-Prof. Gupta

TEAMWORK



Collaborating With Other Teams



API Documentation

- Used Sphinx to generate documentation for our API functions
- Allows for easy navigation
- Easily rewritable if docstrings or functions change
- Available on our github or through our REST API local server:

http://localhost:5000/static/html/index.html

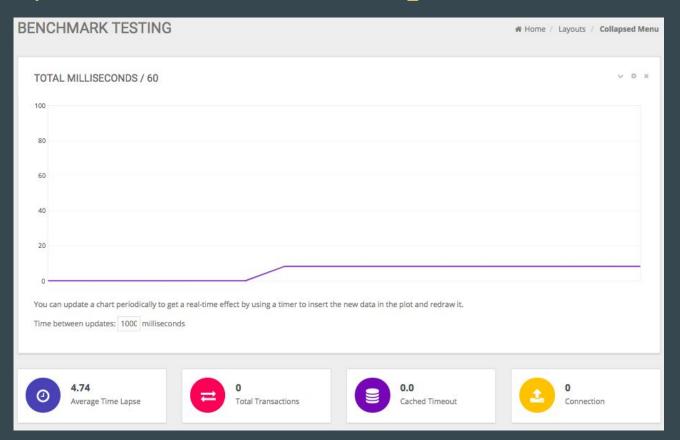
API DEMO

http://localhost:5000/static/html/index.html PYDOCS

http://localhost:8888 API Sample Code

Benchmark and Optimization

http://localhost:5000/static/level1/benchmark_client.html



REST API Visualization

http://localhost:5000/static/level1/SalesByCategory.html

http://localhost:5000/static/level1/SentimentPolarity.html

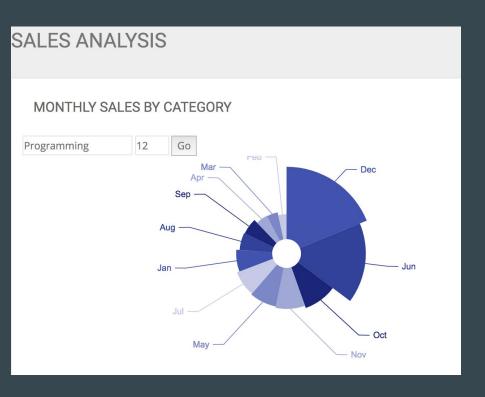
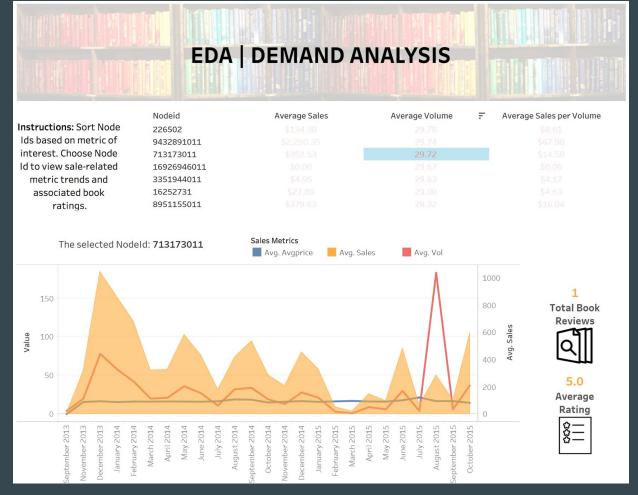




Tableau Data Visualizations

Nodeld-related data views

Tables utilized from mediated schema: reviews_agg_yrmn sales_agg_yrmm



https://public.tableau.com/profile/orysya.stus#!/vizhome/EDA_DemandPrediction/Demand

THANK YOU