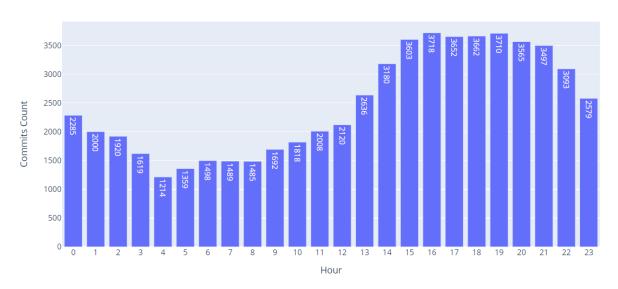
DATA ANALYSIS REPORT- FINDING MOST ACTIVELY MODIFIED MODULES OF OPENSTACK NOVA PROJECT

(https://github.com/openstack/nova)

Tools Used: Python, Anaconda Jupyter Notebook, Git, PyDriller

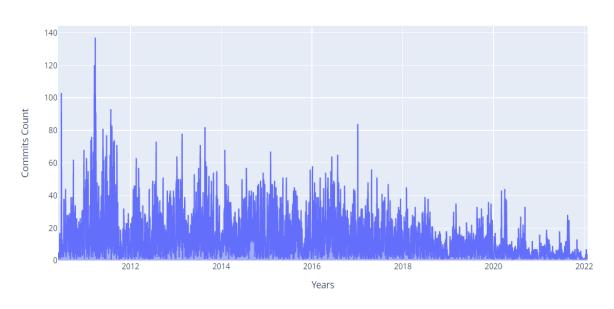
Data was retrieved using GitHub API by hitting the endpoint '/repos/openstack/nova/commits'. It is obvious from the graph below, that more commits have been made to the repository from 3 pm to 9 pm.

Commits by Hour



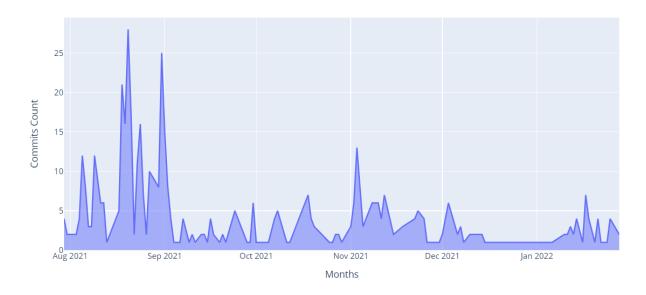
A large number of commits were made around 2011 and there has been a gradual descent in the commits made throughout the years with small spikes in the year of 2012

Commits by Years



During the past six months we can view that the commits were predominantly made in the end of August,2021. Later only few commits were done to the repository with number of commits less than 15.

Commits by Last Six months



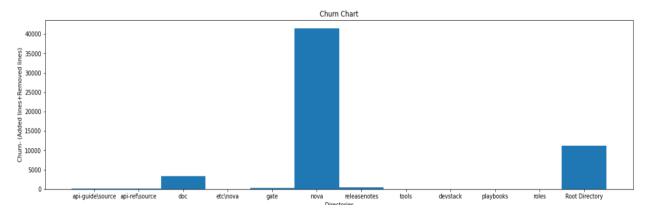
Lines Added and Removed for Last 6 Months aggregated sub-folders wise using PyDriller

```
Lines Added in Sub-directories Last 6 Months
                                               Lines Removed in Sub-directories Last 6 Months
api-guide\source : 82
                                               api-guide\source : 18
api-ref\source : 119
                                               api-ref\source : 50
doc : 2941
                                               doc: 429
etc\nova : 1
                                               etc\nova : 2
gate : 199
                                               gate: 97
nova: 28030
                                               nova: 13448
releasenotes : 428
                                               releasenotes: 9
tools : 9
                                               tools: 4
devstack: 0
                                               devstack: 0
playbooks: 0
                                               playbooks: 0
roles: 0
                                               roles : 0
In Root Directory: 204
                                               In Root Directory: 6793
```

Number of commits to sub-folders under Openstack Nova repository

```
api-guide\source : 6
api-ref\source : 9
doc : 82
etc\nova : 3
gate : 15
nova : 1109
releasenotes : 38
tools : 5
devstack : 0
playbooks : 0
roles : 0
Root Directory : 0
In Root Directory : 26
```

Based on the information retrieved using the above, Churn was calculated directory-wise. 'Nova' folder is identified to be most highly active folder as far as commits are concerned followed by the root directory.



Around 1700 commits have been made by Vishvananda to Open stack Nova repository

Top Committers

