

# Differential Privacy using PyDP

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Chinmay Shah

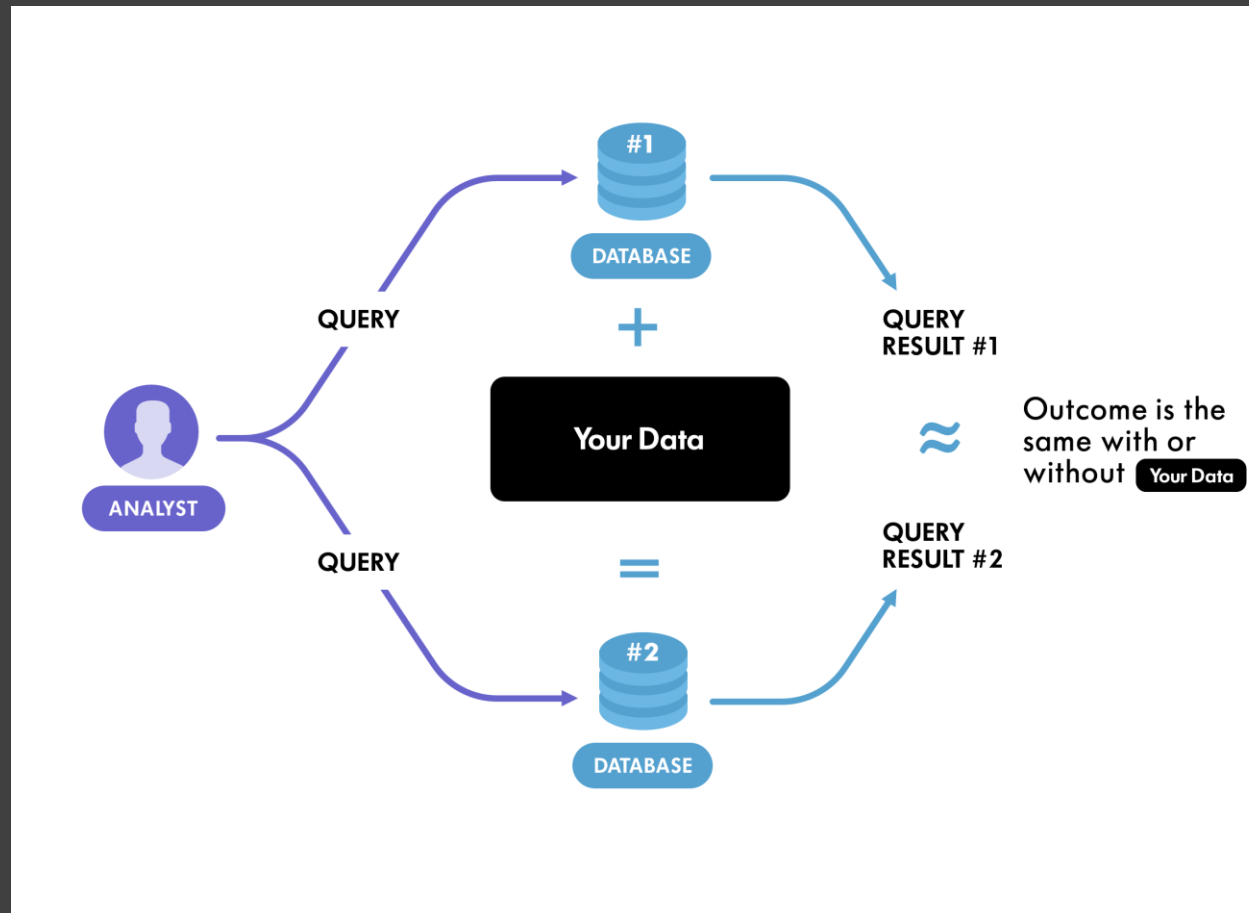
PyDP Team Lead

# Material

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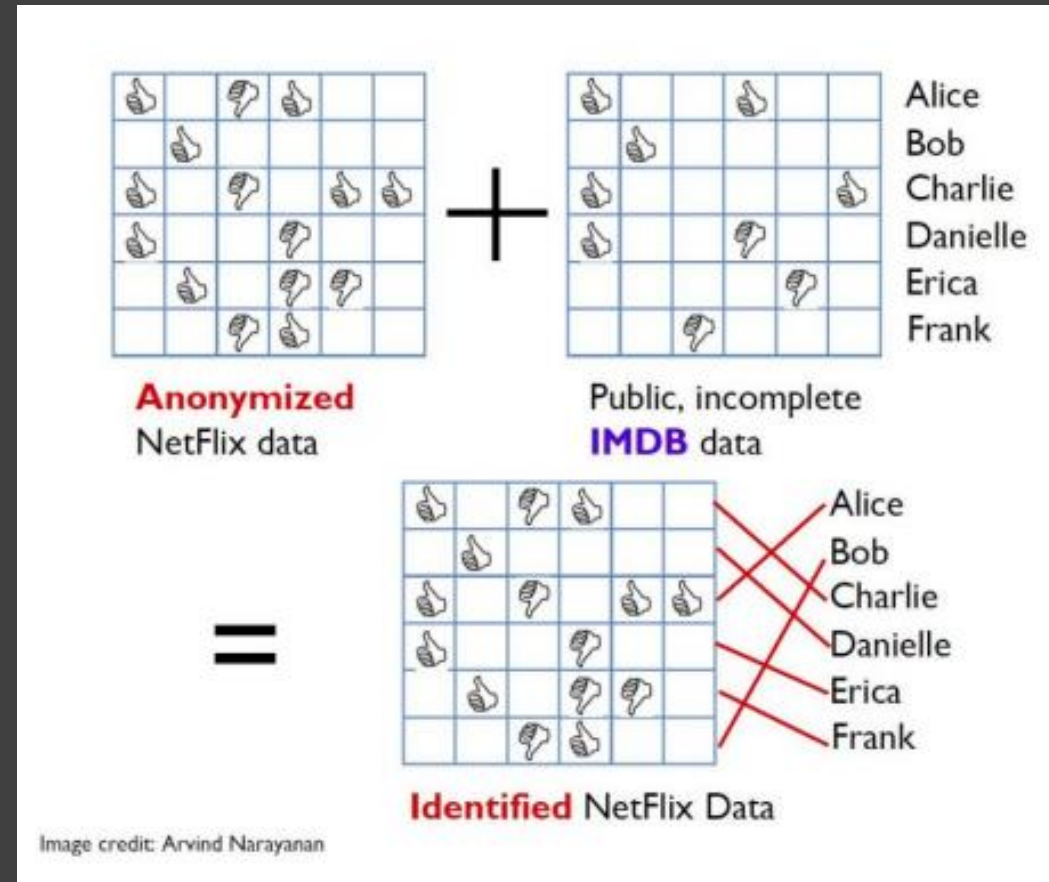
Code: [github.com/chinmayshah99/pricon20](https://github.com/chinmayshah99/pricon20)

# What is DP?



# Why DP

## The Netflix Prize fiasco



Source: CS 860: Algorithms for Private Data Analysis by Prof. Gautam Kamath

# What DP means in the current context?

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Imagine you have a huge dataset.

In the current privacy context (GDPR), imagine a person opts out from data collection

We have to remove him from training our new models or use in our normal statistics

In the previous system, removing the datapoint would alter the dataset and the model may change.

# PyDP

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Python Differential Privacy Package build at OpenMined.

PyPI Package for Linux, OSX and Windows: [pip install python-dp](#)

Docker Hub: <https://hub.docker.com/r/openmined/pydp>

35+ contributors

13k+ downloads on PyPI

Supports Google's Differential Privacy Library

Documentation at [pydp.readthedocs.org](https://pydp.readthedocs.org)

# Contributors

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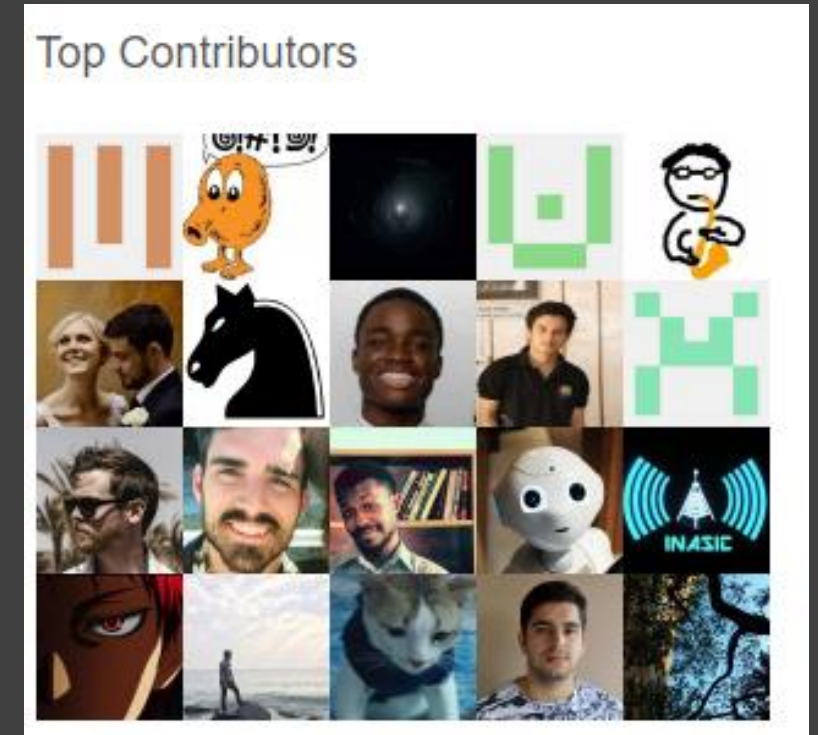
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- **You can be here too**



# Tutorial

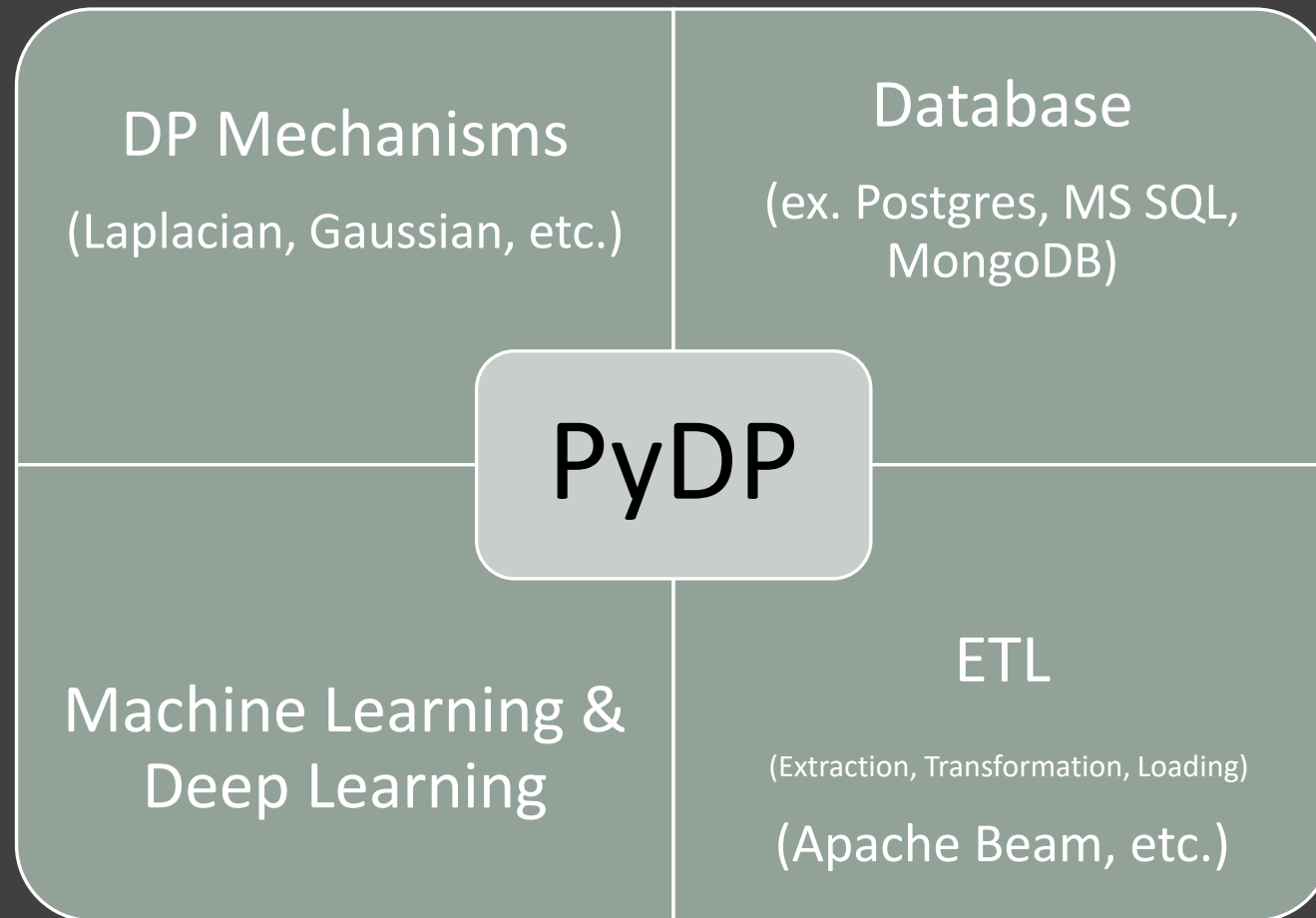
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Code: [github.com/chinmayshah99/pricon20](https://github.com/chinmayshah99/pricon20)



# One-Stop for Differential Privacy

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# Contact Me

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<https://github.com/OpenMined/PyDP> or [Documentation](#)

Slack: openmined.slack.com

- #lib\_pydp
- #code\_dp\_python

# Questions?

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