

## Data Engineer Intern at Qure.ai

### Intro

As a Data Engineer intern, you will play a critical role in the daily operations at Qure.ai. Your key responsibility will be to ensure that the company's data architecture and pipelines are robust and efficient. A successful Data Engineer will be able to identify areas for improvement in the company's existing data pipelines and analysis process. This assignment provides an opportunity for individuals interested in pursuing a career in data engineering and data analysis.

### Assignment

Write an automated script using Python that sends a periodic data summary to Slack (preferred) or to an Email address. You can get a free slack account and establish web-hooks to post the summary. For this exercise, you can post the monthly trend analysis of the number of covid deaths from top 3 states. You can be creative and figure out some different mechanism (other than slack/email) as well - the goal is to send updates to a group of users about important metrics periodically. You will be asked to explain your solution during the next round. Please send your submission in the form of GitHub or a pdf report with screenshots (please don't send non-pdf files).

Link to dataset: [Dataset Link](#)

The slack message or email from bot should look like this:

Top 3 states with the highest number of covid deaths for the month of March

Month - March

State #1 (eg. NY) - no. of deaths, % of total US deaths

State #2 - no. of deaths, % of total US deaths

State #3 - no. of deaths, % of total US deaths

There should be 4 messages posted (by a script/ bot you build using python) at a fixed interval for the month of March, April, May, and June.

*If you have any questions related to assignment, please drop an email to [karan.Chilwal@qure.ai](mailto:karan.Chilwal@qure.ai) keeping [dhruv.shah@qure.ai](mailto:dhruv.shah@qure.ai) in cc*