



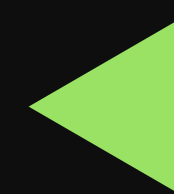
CLOUD-HOSTED REALTIME DATA SERVICES FOR THE  
GEOSCIENCES

# THE SECRET CHORD

PRESENTED BY WALTER ASBELL, ESEL NORWOOD II, TONY, GUY, ISHAN  
PARANJAPE



# WHAT IS CHORDS?



# PROBLEM STATEMENT

*The Need for Simple Data Submission Tools*



The Science field is full of very specialized professionals who don't always have the time, knowledge, or resources to easily understand a programming language or work inside an IDE or more complex interfacing to submit data for computation and visualization output.

Our goal was to design a hosted interface that allows scientists to easily submit data in the form of a CSV file and receive structured visual output as well as a short summary statistical overview of the data.

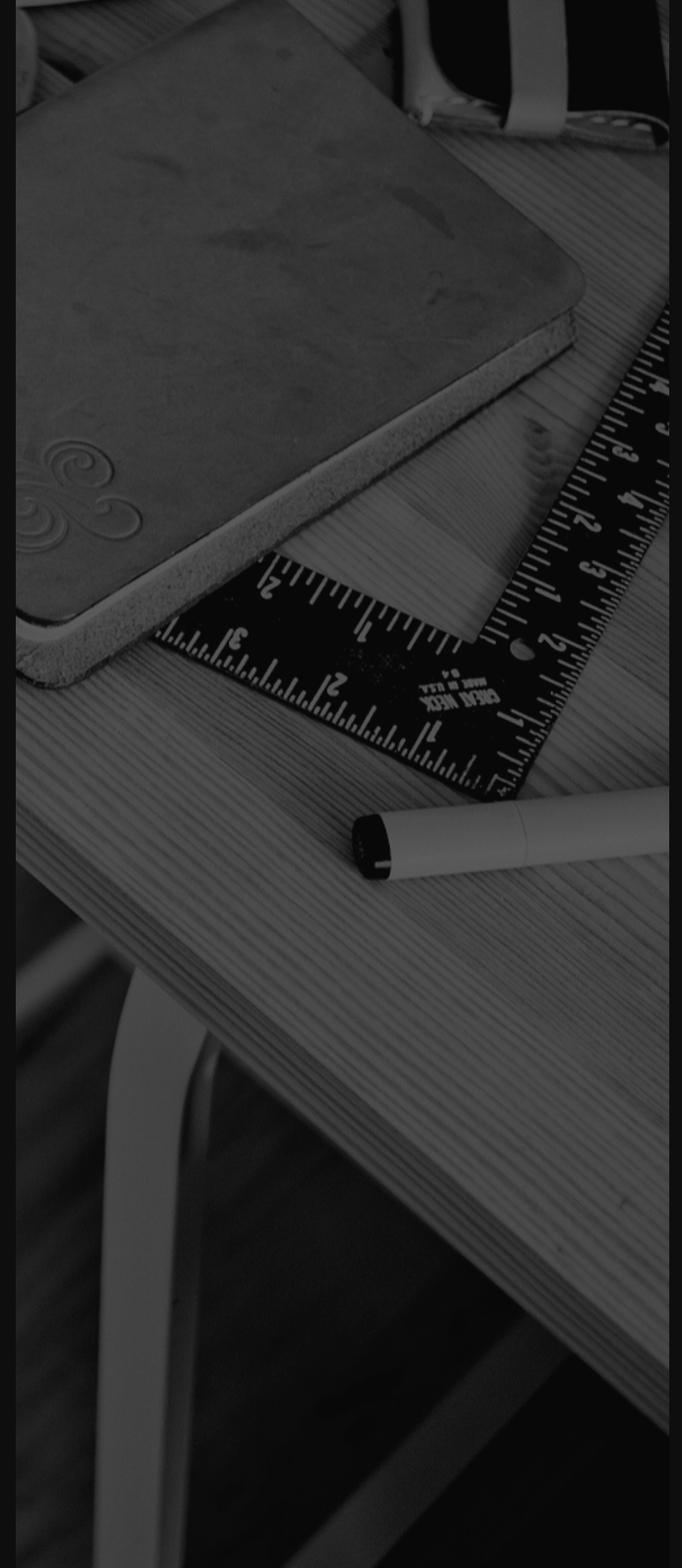


# OUR SOLUTION

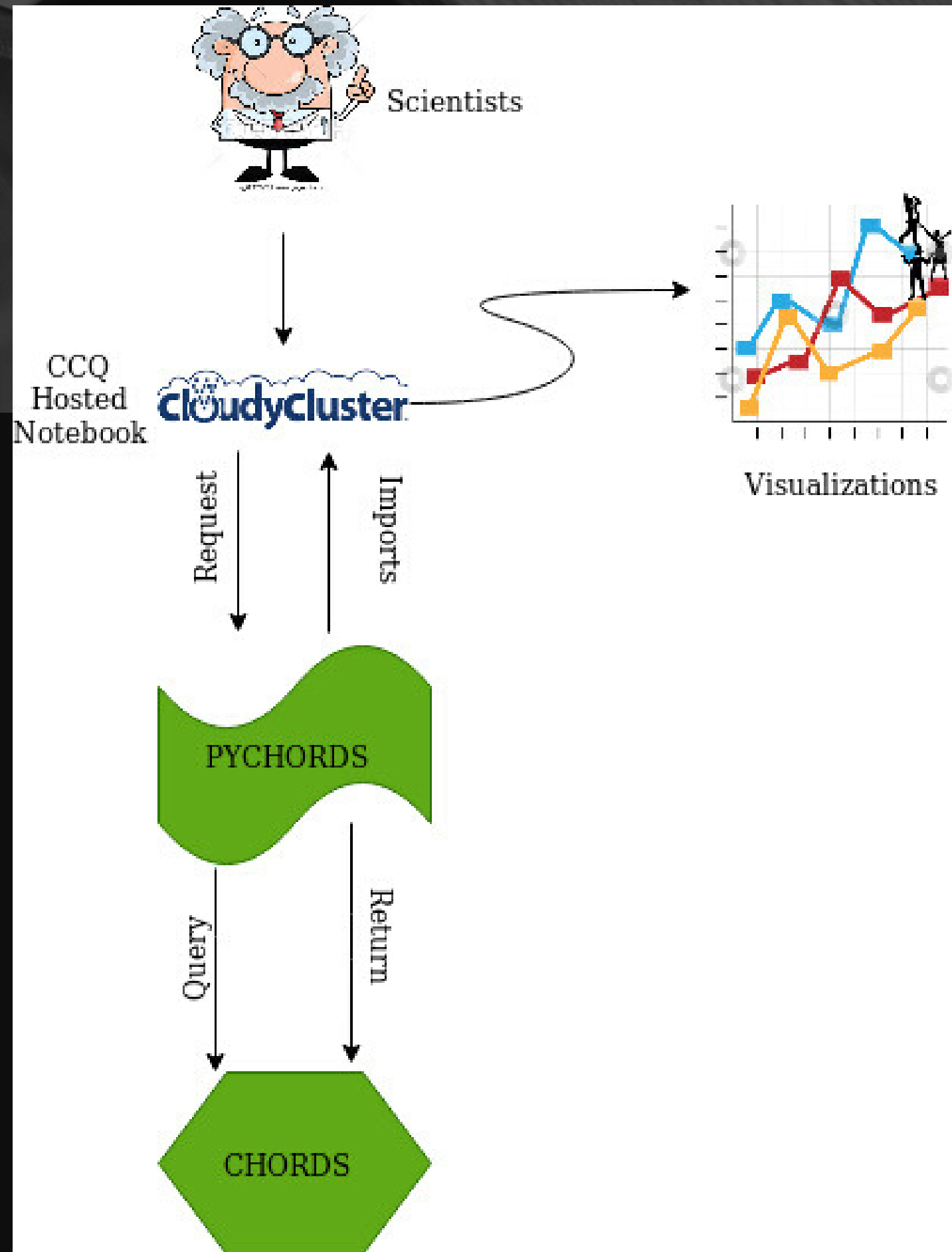


## *Cloud-Hosted Jupyter Notebook*

We created a python module called pyCHORDS that interacts with CHORDS and allows easier data manipulation and visualization. We were also able to implement a cloud-hosted Jupyter Notebook that allows the user to view examples on how to use pyCHORDS.

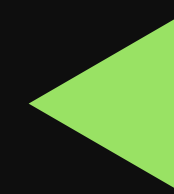


# WORKFLOW DIAGRAM





**DEMO**



# SECRET CHORD

THE CREATIVE GENIUSES

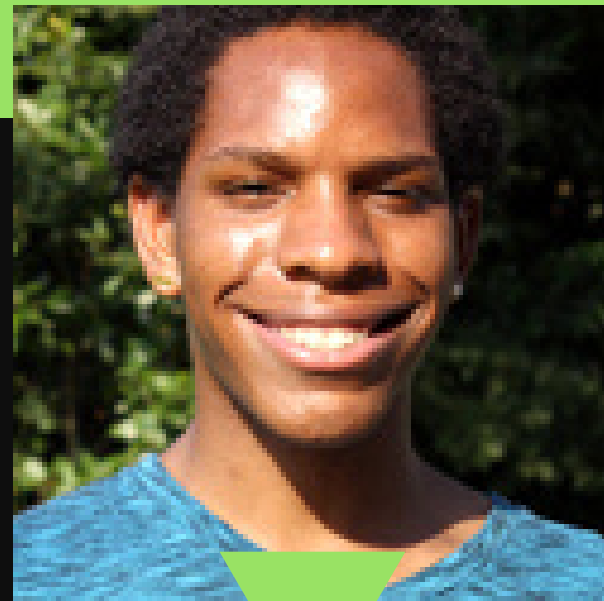


# OUR TEAM

THE CREATIVE GENIUSES



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*Special Thanks*

# INTEL, OMNIBOND, SGCI, GOOGLE CLOUD, TACC, AND AWS

*SPECIAL THANKS TO OUR AWESOME SPONSERS FOR MAKING  
ALL OF THIS POSSIBLE AND FOR BRINING US ALL TOGETHER  
FOR THIS AMAZING HACKATHON EXPERIENCE.*

