

Bringing the Google Cloud Platform to UC Berkeley Students

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Survey

We surveyed people within our personal networks here at UC Berkeley to better understand how we can make GCP more accessible to more students.

Survey Methodology

Overview of the "tech experience" survey we distributed



Tech Experience Survey

Background

Major/minor(s), participation in extracurriculars and research, comfort with coding

Best Learning Strategy How do you best learn a new skill?

Technical Problems What technological problems have you encountered?

Interest in Tools

What tools would you be interested in learning for classes, extracurriculars, or research?

Responses

College Students

Berkeley organizations Personal connections











Analysis

How well do our personas match the sampled population?

Note: Some students are part of multiple categories.

51% humanities

53% technical student

29% researcher

19% entrepreneur

User Personas

Using our survey, we found that most respondents fell into four major categories: humanities student, researcher, entrepreneur, and technical student

Persona 1: Humanities Student



Humanities students will need easy to use products for data analysis and websites



COMPUTER COMPETENCE

1.3 / 5.0



PROBLEMS FACED

50% had trouble with using AI/ML

38% had trouble with creating websites/apps and storage



FEATURES OF INTEREST

Data Analysis, Machine Learning, Image Analysis



PREFERRED LEARNING METHODS

Academic Classes, Peers

Persona 2: Researcher



Researchers have different backgrounds and will need a wide variety of products for heavy data analysis



COMPUTER COMPETENCE

2.3 / 5.0



PROBLEMS FACED

53% had trouble with data entry

47% had trouble with computing power

35% had trouble utilizing AI/ML to enhance their research



FEATURES OF INTEREST

Data Analysis, Machine Learning, Image Analysis



PREFERRED LEARNING METHODS

Academic Classes, Videos, Online Courses

Persona 3: Entrepreneur



Entrepreneurs will need GCP products to help them create their own products and share info



COMPUTER COMPETENCE

3.4 / 5.0



PROBLEMS FACED

63% had trouble creating apps for their startup

54% had trouble integrating AI/ML to enhance their startup



FEATURES OF INTEREST

Data Analysis, Image Analysis, Machine Learning



PREFERRED LEARNING METHODS

Academic Classes, Videos, Online Courses

Persona 4: Technical Student



Tech students will need products for machine learning, artificial intelligence and complex data analysis



COMPUTER COMPETENCE

4.1 / 5.0



PROBLEMS FACED

67% had trouble applying ML/AI

51% had trouble with data entry

41% had trouble coding and/or deploying their app idea



FEATURES OF INTEREST

Machine Learning, Data Analysis & Image Analysis



PREFERRED LEARNING METHODS

Coursework & Videos

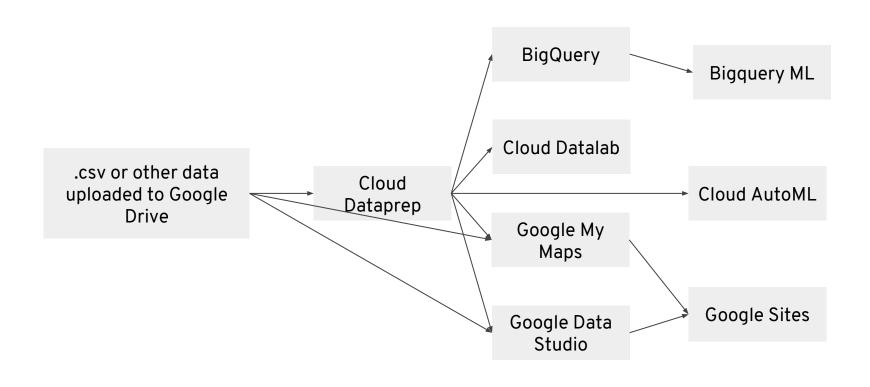
Recognize

We can utilize the popularity of Google Drive to increase recognition of the Google Cloud Platform and introduce curiosity into what the platform does.

Using Google Drive Pathways



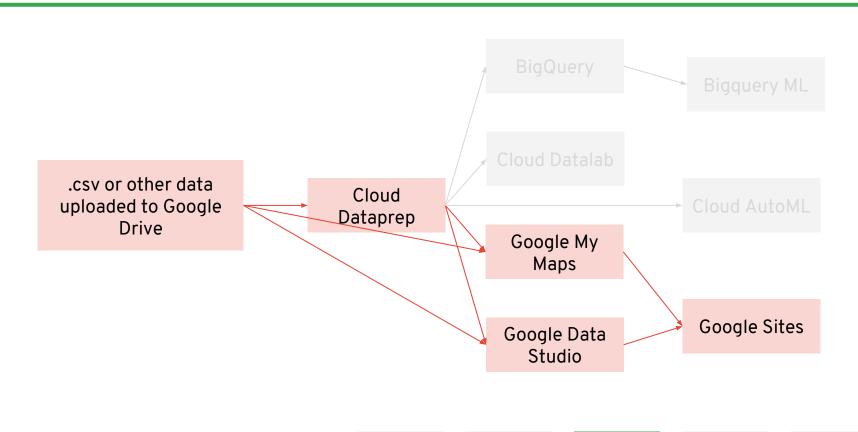
Google can leverage the popularity and familiarity of Google Drive to create paths to other GCP products



Humanities Student



Humanities students will use products that don't need code and could benefit from Google Sites integration

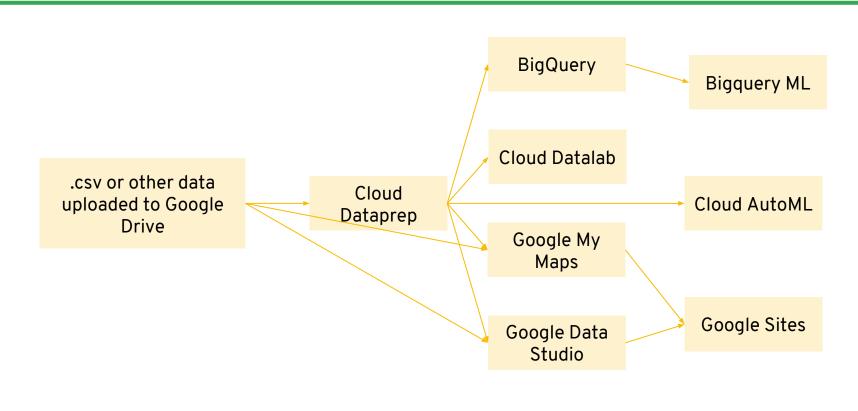


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Researcher



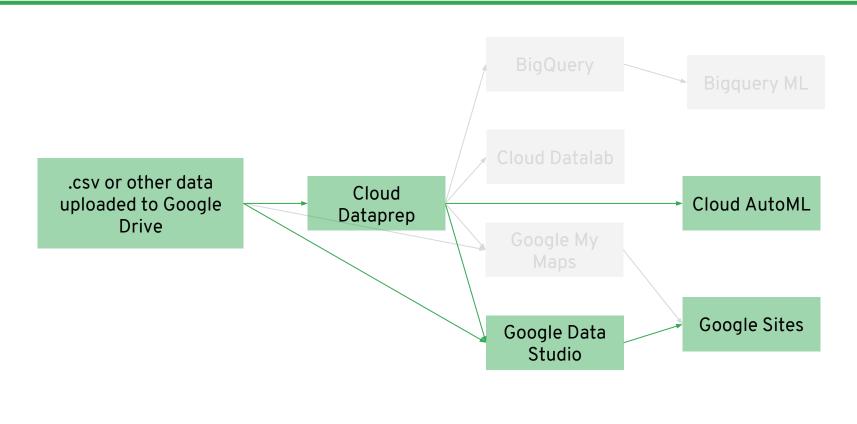
Researchers have a range of needs/experience and could either follow a more tech or humanities path



Entrepreneur



Many entrepreneurs need to present data about their business, some may use ML to create products

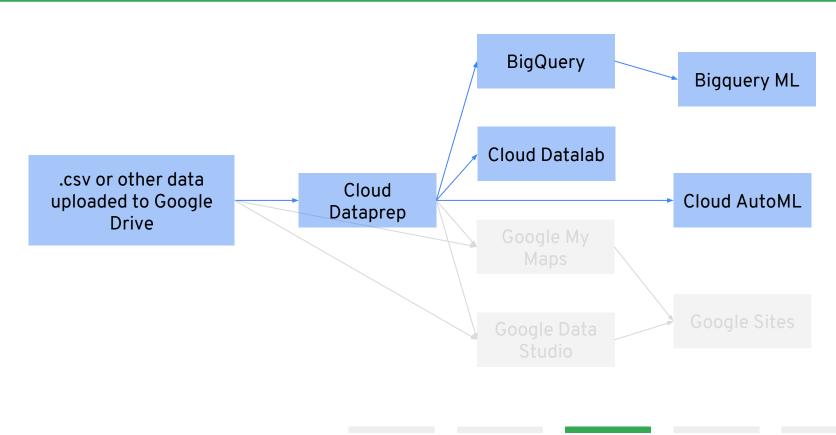


Recognize

Tech Student



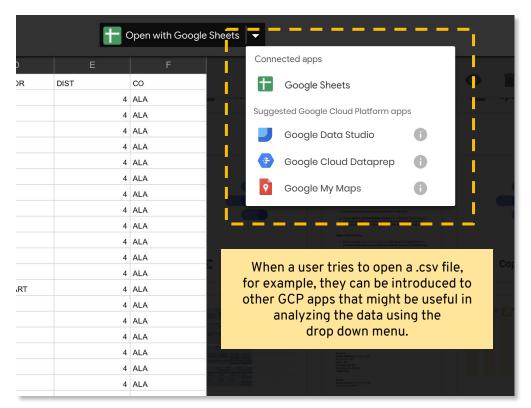
Tech students are highly interested in machine learning and paths to advanced data analysis

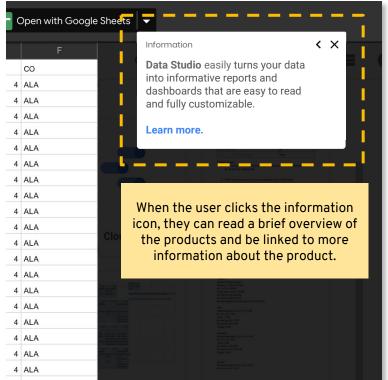


Data Studio



Google can leverage existing Drive UI to introduce students to GCP products

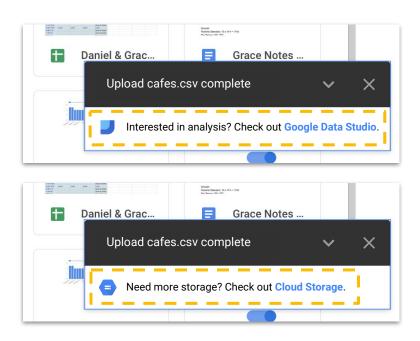




Google Drive Links



Google should facilitate custom linking between products to increase access to GCP

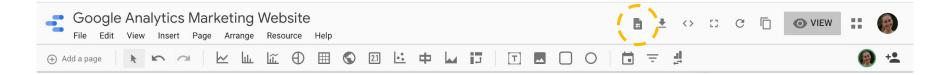


After a user uploads a file, customized pop-ups appear based on both the type of file and the size of the file. Such pop-ups link users to Google Data Studio, a platform for data analysis and visualization, and Cloud Storage, a storage solution for large files.

Google Data Studio Links



Google should facilitate seamless integration with all GCP products to keep users engaged



Another useful link connects Google Data Studio to Google Sites, allowing users to easily publish the reports they made on Google Data Studio online.

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Recognize

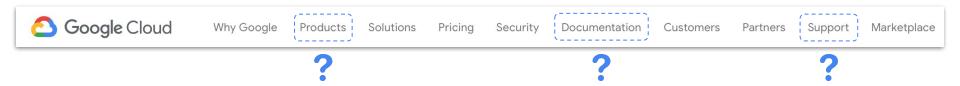
Understand

We can increase understanding of the Google Cloud Platform by employing terminology that is both user-friendly and encompassing.

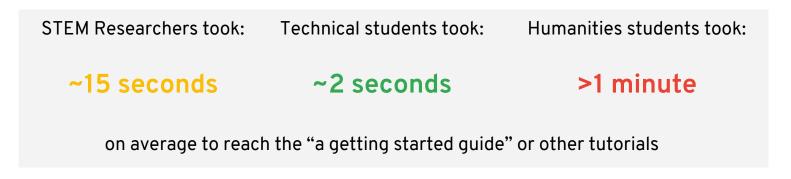
Google Cloud Website



Google's menu caters toward experienced users, who have been exposed to technical menu options



When we did user testing of Google Cloud's websites with our friends:

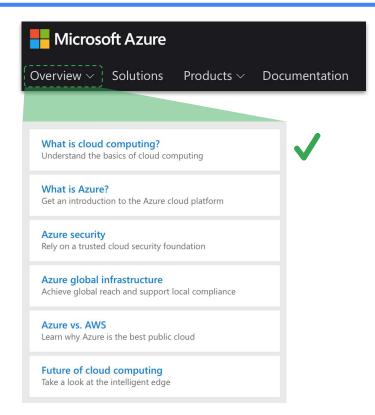


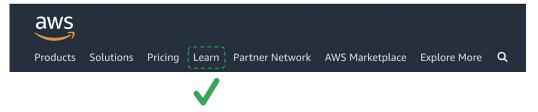
Understand

Competitors' Approaches



Google can follow Microsoft's and Amazon's lead in using easily understood language





Microsoft Azure uses "Overview" to provide an easy way to understand both the concept of cloud computing and what Azure has to offer.

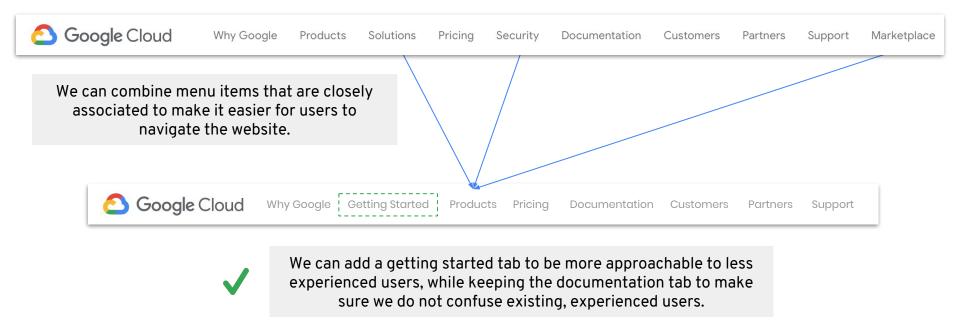
In a similar manner, Amazon makes it clear for users how to quickly get started working and integrating Amazon Web Services through the "Learn" menu option.

All users we tested on these websites found "a getting started guide" or other tutorials in under 10 seconds.

Changing Google Cloud Menu



Using terms that are more user-friendly in the menu will allow for easier exploration



Master

By integrating GCP into classes as well as workshops, students can master their knowledge of the platform and figure out how to best use it.

Instruction



Integrating with different classes is a powerful way for Google to reach a variety of students

of survey respondents mentioned that academic coursework, online courses and decals are the best way to learn a software program/skill.

Researchers

Many UC Berkeley-affiliated organizations offer free workshops to researchers to learn new software.

Google can host a workshop to introduce GCP to researchers



Humanities

Humanities students mention DeCals as a great platform to pick up skills and learn programs

GCP can hire a student ambassador to teach a DeCal on that



Technical

Tech and CS students tend to stick with the first programs they are exposed too.

Introducing the GCP in freshman classes converts them to long term users





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Google Sponsored Events



Organizing GCP events in workshop and accelerators is a great way to create awareness on GCP

of survey respondents mentioned that they would be interested in career opportunities and networking with Google.

Entrepreneurs

Student entrepreneurs value networking with professionals as well as seek skill related guidance for their startups through entrepreneurship classes and accelerator events.

Google should host networking events or workshops for student entrepreneurs.

Berkeley S K Y) E C K







Students (STEM and humanities)

STEM and humanities students are interested in full time and internship positions in Google. Hence, info-sessions hosted by Google draw huge crowds.

Google can leverage this by hosting a GCP workshop where students can be introduced to the product as well as drop resumes.

NOV

HBSA | DSSB Data Analytics SQL Workshop

Public · Hosted by Haas Business School Association (HBSA)

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