



VC Funding Worldwide 2005-2015

Web Application Data Visualization Dashboard

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Project Motivation - Why?

- What are some major startup hubs around the world - they may be an indicator of tech hubs?
- Is there a large international presence of startup funding?
- Are there factors that contribute to a startup being successful vs. failing that can be determined from this dataset?
- What are the top 10 cities in the world by number of startups? By average startup funding? By total startup funding?
- What percentage of startups are found where in the world - is it evenly distributed, or are there highly concentrated areas with many startups (like Silicon Valley)?



Project Overview & Methodology

- Data sourced from Kaggle, Crunchbase, and Google Maps Geocoding API
- Cleaned by removal of
- Data loaded into PostgreSQL using SQLAlchemy and pandas
- Visualizations served as a Flask app
 - Two geographic map visualizations that use Mapbox with the Leaflet framework
 - One bar chart funding visualization that uses Chart.js - a JS library from outside this class
- Two RESTful APIs serving the visualizations in this app
 - `./samples.json` to provide snapshot of entire, aggregated records of database to geographic visualizations
 - `./api/city/<city-name>` to provide single-city data for bar chart funding visualizations