

Investigate the relationship between climate events and corporate financial performance

Title	Investigate the relationship between climate events and corporate financial performance
Description	<p>With the increased presence of climate change discussions in everyday life, it has become apparent that climate events also impact the financial markets.</p> <p>Each company is exposed to a sort of risk due to climate change, be it supply chain risk, operational risks or market risks. Some companies give an overview of the risks they face in their annual reports and discuss the impact on their business. However, the number of comprehensive discussions is limited. Moreover, the academic research on the relationship between climate events and stocks performance is also extremely limited.</p> <p>This project proposes to investigate the relationship between climate events and companies' financial performance.</p>
Expected outcomes for the project upon completion	<p>The students are expected to:</p> <ul style="list-style-type: none"> - Analyse the climate events datasets and determine the relevant data that may be required for the project - Propose a list of companies to analyse, from several industry sectors - Propose hypotheses, statistical or data mining questions to be addressed in regard to the share price performance and financial performance - Develop the algorithms, run them, and analyse the results - Iterate and document interesting findings in the Final Report - Communicate the progress regularly - (subject to time) Co-author a journal paper describing the findings
Preparation required by students prior to initial meeting (if any)	
Additional Notes by Host Organisation	<p>The climate events datasets that will be used refer to US events and are publicly available on Kaggle for research purposes. https://www.kaggle.com/rtatman/188-million-us-wildfires https://www.kaggle.com/usgs/earthquake-database https://www.kaggle.com/jayitabhattacharyya/climate-change-trends</p> <p>The financial statements data will be made available from SEC (Securities and Investments Commissions, US) using our Excel add-in that allows direct retrieval of data points (license based).</p> <p>The share prices data is freely available from Yahoo Finance.</p>
Course Name	Master of Data Science
What datasets are available and in what format will they be provided?	See additional notes above. Climate events in CSV, financials direct retrieval to Excel, share price online.
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