

Using a hidden Markov model employ a recurrent neural network to establish a time-series forecast that considers the impact of climate change on the economy in the US.

Show algorithms that highlight areas of greatest impact.

List the top 5 sources using this model to synthesize climate data.

With this example, Chat GPT can provide information and steps on how to perform a complex task such as an HMM but cannot perform the task itself. No algorithm or data was presented showing specific areas of negative economic impact or causes for such impact (flooding, earthquakes etc). Other useful sources could have included the Journal of Risk Management, The Journal of Impact and ESG Investing, ESG through Bloomberg, ESG Global Study and other finance sources. It provided sources specific to climate data but not economics or finance.

[10] {Sources} Yes - listed NOAA, NASA, IPCC, CRU and USGS

[5] {Results} No - details how to make the model but did not create analysis

[5] {Factuality} Yes - solid understanding of the model and how to use it

[5] {Helpfulness} No- did not provide the information requested, provided code examples instead.

[5] {Accuracy} No- unable to create an HMM with any data to verify

[5] {Examples} No- did not provide data-specific examples of areas of high economic impact (e.g. coastal flooding)

To forecast the impact of climate change on the US economy using Hidden Markov Models (HMM) and Recurrent Neural Networks (RNN), we will follow several steps from data preparation to model implementation and analysis. We will start by highlighting the algorithms that allow us to process the data and train our models.