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CS132 Senior Capstone Project: Videoslides

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Abstract

VideoSlide, stylized VideoSli.de, is a CS132 group project, a web application that provides streaming videos to users related to a specific search string (presently available at <http://videosli.de/>). The user enters a string related to videos they would like to see (for example, “kitten”) and searches, which launches the stream. They are then able to upvote, downvote, skip, or go back to a previous video using simplistic keyboard controls (the arrow keys) or on-screen toggles. “Upvoting” or “downvoting” a video trains a predictive machine learning algorithm running on the server’s backend to provide preference-based videos on future queries. The user authenticates via the Google Accounts API; the service logs their views along with preferences votes (thumbs up/down) for each station to provide videos tuned to that user’s particular taste. VideoSli.de uses similar methodology to popular music streaming service Pandora to provide an endless stream of videos according to query similarity and previously-observed user behavior.

My role in the project concerned user experience and frontend (HTML/CSS/JavaScript/JQuery/JQueryUI). The primary goal of the project was a simplistic interface, with respect to both controls and design. The design of the site is thus as simple and elegant as possible to ensure maximal user engagement and a minimal learning curve. A screenshot on the next page shows the finished design, which is reactive to user interaction (not shown in static image).



amin van buuren

Search!