Benedict

The smart way to meet

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Structured by Lightning

Problem

Communication, collaboration, and information—these are the resources that foster innovation. With the progression of technology, communication has become instantaneous, collaboration ubiquitous, and the retrieval of information effortless. Can we create a technology that unifies these resources in a context where they all naturally come together: the formal meeting?

Solution

Meet Benedict, the smart assistant integrated into a video web conferencing application. With personalized meeting rooms utilizing P2P video and chat, he brings you a communication platform. Equipped with real-time access to information resources, he retrieves answers to your every question. Through customized scheduling, and Google Docs and Drawings, he streamlines your collaboration.

Benedict’s Features

Group Meetings
- Create custom groups
- Video and text chat
- Persistent chat history

Smart Assistant
- Ask questions, get answers
- Edit shared documents
- Schedule calendar events
- Find a time that works for everyone

Thanks to
- Our UCSC Teachers:
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Scheduling
- Ask Benedict to schedule a meeting for a specific date and time
- Request a list of times everyone is available, using our bitwise scheduling algorithm

Meeting Tools
- Ask Benedict to open up a document or drawing for you
- Everyone can collaboratively edit, so you can develop your ideas together

Share and Sketch Ideas
- Utilizes Wolfram Alpha, Wikipedia, and Google Search to bring you answers
- Our natural language processing and machine learning algorithms select the best API for every query

Benedict’s Brain

Machine Learning
- We use a Bernoulli Naive Bayesian Classifier for our machine learning algorithm
- Our classifier is trained on a set of over 5,000 human-selected and generated queries

Natural Language Processing
- We utilize NLTK to generate a tree composed of words with corresponding parts-of-speech
- We parse these trees and apply grammatical analysis to obtain meaningful data

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Technologies

P2P Handling
- icecomm.io
- WebRTC

Hosting
- AWS

Front End
- HTML
- CSS
- JavaScript
- jQuery

Knowledge Core
- NLP
- Databases
- Log Ins

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