

## Cygnus - Voice Interaction Model

### Intents

- GetStockPrice
- GetNews
- OpenAccount

open cygnus

Skill Initialization

Is Action Provided

Cygnus

Hi I am cygnus from saxo bank , I would be glad to assist you . You can ask me to look up any stocks , latest finance news or open an account with Saxo bank

Default Speech response

Is response Provided

Sorry I did not receive any input. Do you need any help ?

Again Prompt Speech response

was Yes or No said ?

Call Lamda Function

GetStock Price

GetNews

Open Account

Help

www.alphavantage.co

api.twitter.com @saxobank

trading-accounts.herokuapp.com

Service Response

End

It was nice talking to you. Good Bye , Do checkout more about us on [www.home.saxo.com](http://www.home.saxo.com)

## Alexa Invocation Process

Alexa,

Wake Word

ask

Launch word  
ask,open,start

Cygnus

custom skill

Share price of

Utterance to match the Intent

{ INFY }

Slot Value  
Custom and built in

## Why Voice Search ?

Future of search is voice and personal digital assistants



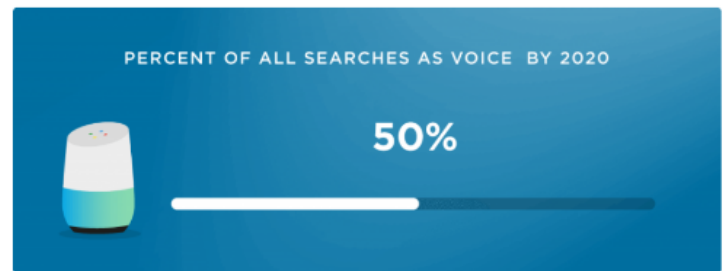
Faster searchers === faster answers



[\\*Gartner](#) Better NLP are providing hands-free or eyes-free search



voices search is more convenient ,  
this trend improves SEO



## Voice Search Device Stats

Amazon controls 70% of the voice-enabled speaker device market



Amazon's Echo family

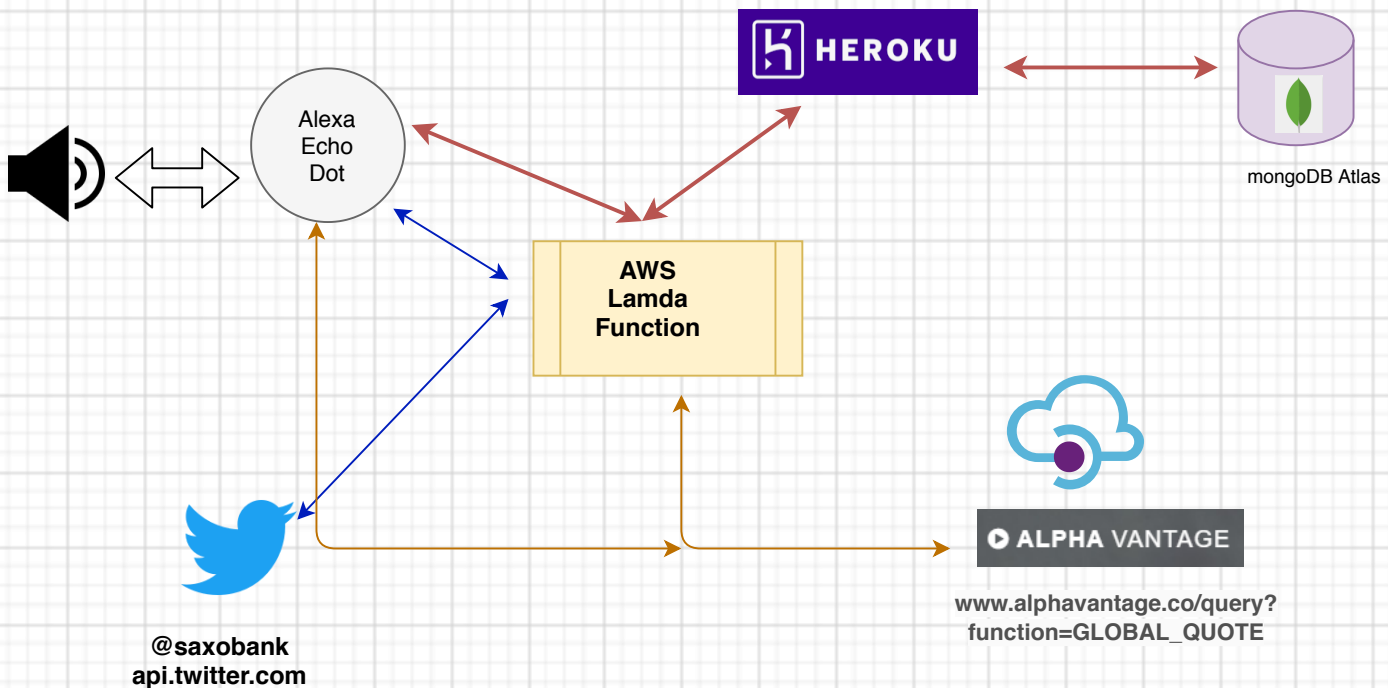
## Alexa Skill in Executing Trades

Alexa, ask cygnus to buy me some Amazon stock .  
Alexa, ask cygnus to get the latest market updates.  
Alexa, how do I open my Account with Saxo Bank  
Alexa, what is my Profit & Loss ?  
Alexa, what is my position in Tesla ?

\*Cygnus is the Invocation name of the Alexa custom skill

Executing trades could be done by account linking to users  
account in Go/Pro platforms with the custom skill

- Node JS : creating Api's and backend service in AWS Lambda
- Account with Amazon Developer portal to create Alexa Interaction Model
- Account with AWS to create a Lambda function
- Logs and monitoring through Amazon Cloud Watch
- Creating an Express API to connect backend Lambda function to MongoDB cloud Atlas Database
- Node - Express API would be deployed on Heroku and create a pipeline from GitHub Repo for Auto Deploys



### Alexa Intents

#### OpenAccount

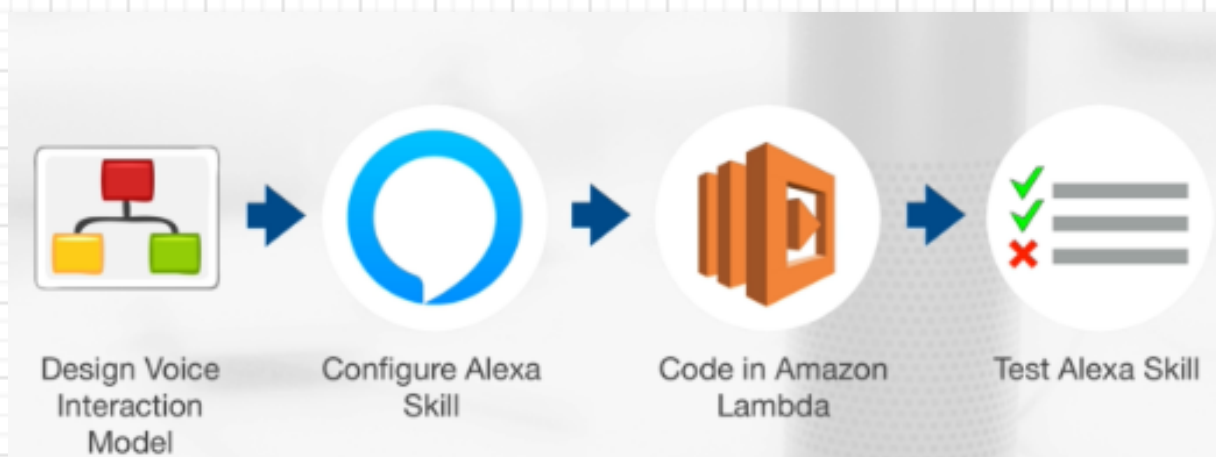
↔ Alexa , Create my account with SaxoBank

#### GetNews

↔ Alexa , how is the market today ?

#### GetStockPrice

↔ Alexa , what is the share price of INFY ?



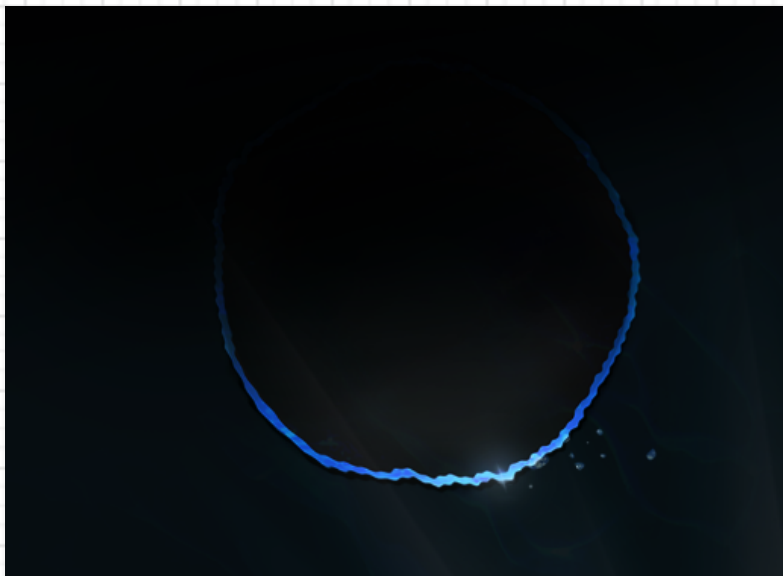
## Ideas

Connect with your portfolio with any Alexa enabled device while watching TV , driving or cooking

Non Saxo Bank account holders can also get latest market updates , saxo starts and based .  
Voice data could be used for marketing purpose and lead generation of potential clients

Alexa Skills can be monetized by in-app purchases (In Skill Purchasing) for premium features .

Alexa Skill can improve the convenience of the product and indirectly improving sales as it makes consumers to interact with a brand without interrupting daily routine.



Cygnus in action

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