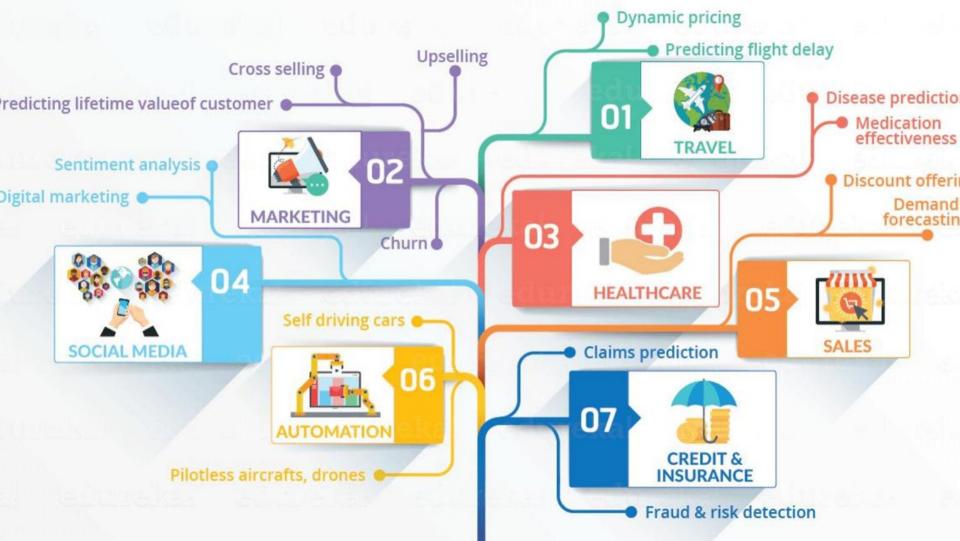
AFRICA DATA SCHOOL



"Al is everywhere... In fact Al is the engine underpinning the 4th industrial revolution"

Kay Firth-Butterfield, Head of AI and ML, World Economic Forum





Machine learning ⊆ artificial intelligence

ARTIFICIAL INTELLIGENCE

Design an intelligent agent that perceives its environment and makes decisions to maximize chances of achieving its goal.

Subfields: vision, robotics, machine learning, natural language processing, planning, ...

MACHINE LEARNING

Gives "computers the ability to learn without being explicitly programmed" (Arthur Samuel, 1959)

SUPERVISED LEARNING

Classification, regression

UNSUPERVISED LEARNING

Clustering, dimensionality reduction, recommendation

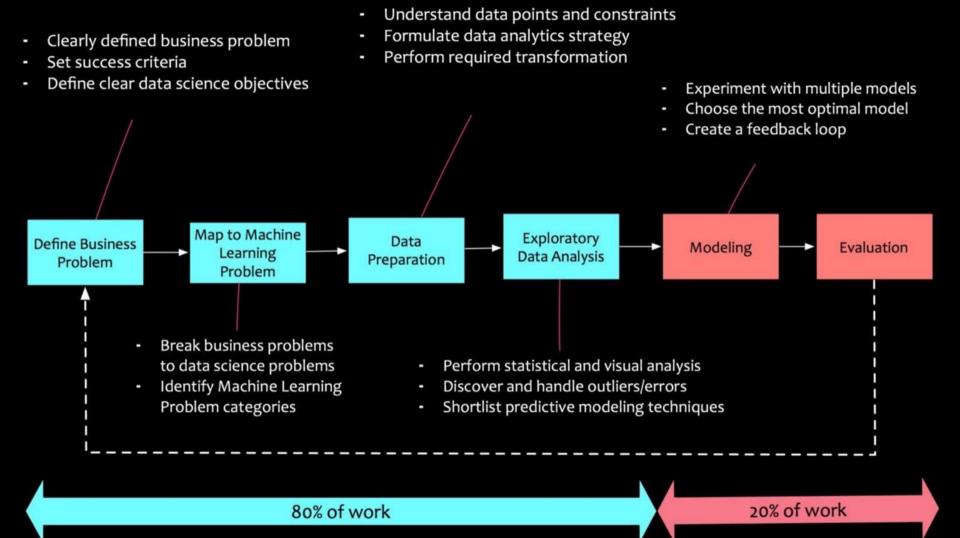
REINFORCEMENT LEARNING

Reward maximization

CURRICULUM

- 1 INTERMEDIATE COURSE
- 2 ADVANCED COURSE
- SELF-DRIVING CAR COURSE (COMING SOON)

GOAL



INTERMEDIATE COURSE

DATA ANALYSIS

Pandas & Numpy

DATA VISUALIZATION

Seaborn, Matplotlib & Plotly

REGRESSION

Linear Regression & Model Evaluation in Regression Models

CLASSIFICATION

KNN, Decision Trees, Logistic Regression and SVM

CLUSTER ANALYSIS

k-Means

DIMENSIONALITY REDUCTION

PCA

DEPLOYMENT

Pickle & API

PROJECTS

Lead Scoring
Credit Scoring

ADVANCED COURSE

DEEP LEARNING

Neural network, CNN, RNN & GAN

 NATURAL LANGUAGE PROCESSING (NLP)

Text summarizer & Text classifier

 RECOMMENDATION SYSTEM

Item based & User based

BIG DATA WITH PYSPARK

DataBricks Platform, MLLIB & AWS

COMPUTER VISION

Convolutional neural network & Open cv

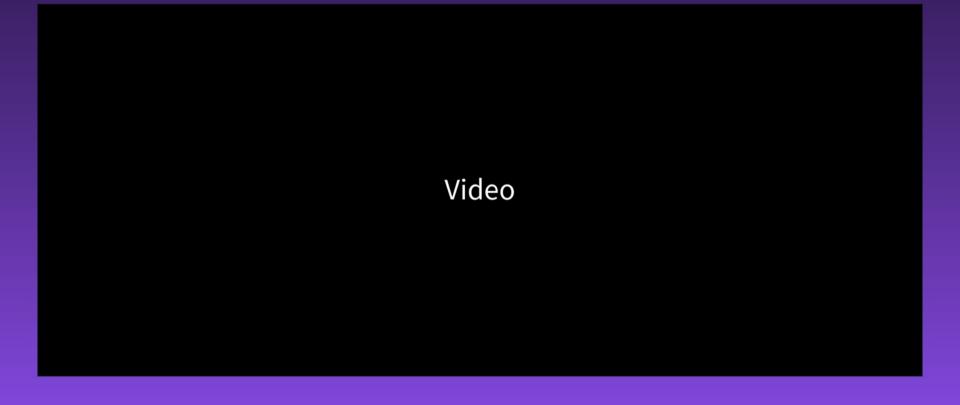
CAPSTONE PROJECT



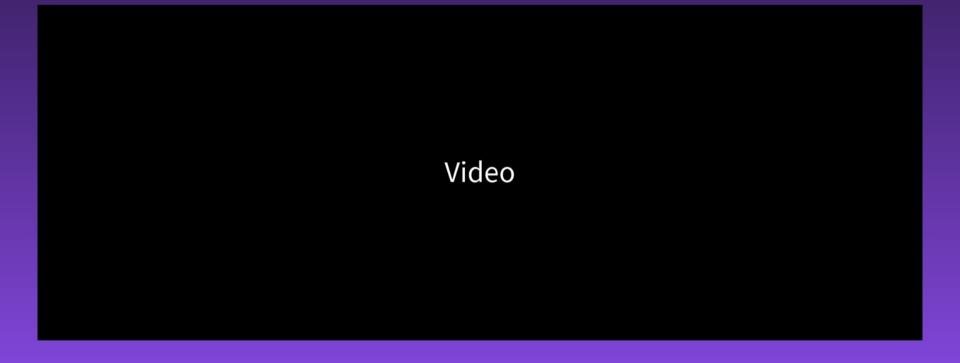
FAKE OBAMA CREATED USING AI VIDEO TOOL

Video

AI GENERATED ROCK MUSIC



OPENAI'S REALISTIC TEXT-GENERATING AI



RECOGNITIONTELECOMMUNICATIONTHEOREM

ENGINESSEATINE TANGED PART LA PROBUED SAN HEALTH LA LITHE COGNITIONSTRUCTURAL TANGED PART LA LITHE COGNITIONSTRUCTURAL TANGED PART LA LITHE COGNITIONS TRUCTURAL TANGED PART LA LITHE COGNITION STRUCTURAL TANGED PART LA LITHE COGNITION STRUCTURA TANGED PART LA LITHE COGNITION STRUCTU ENGINEERINGSPEECH DET MININGSOFTWARE EEARKET MARKET MARKET MARKET ANALYSISGENERAL HISTORY STATEMENT AND MANAGEMENT AN

MONITORINGSYNTACTIC

CLASSIFICATION\ LANGUAGE SERIES
PLAYINGHANDWRITING ANALYSISSEQUENCE
RECOGNITIONINFORMATIONFORECASTINGUSER PATTERN