Innovation

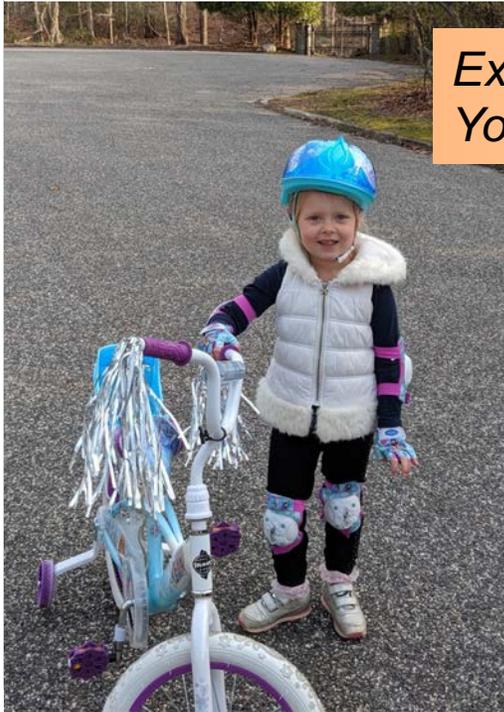Top 5 Artificial Intelligence Concepts

You are in the Right Place

Learning Objectives

Fun.ai

- How to explain your AI process and results to regulators
- How to embrace AI without being replaced by it
- What are the best and easiest ways to train the machine
- Which projects to solve with AI
- How to target less false positives and more true positives
- Reinforcement quiz
- Bonus: How to manage a data science project
- Bonus: Hot to continually improve AI Models
- Call to action

Question

How to explain your AI process and results to regulators

Answers

Explainability is like a bicycle helmet.
You don't need it but crashes hurt less.

- Show your work, not just the answer
- Provide a picture of the the typical thing you are looking for
- Visually compare what you found to what you are looking for
- Use explainability and interpretability algorithms
- Create an AI platform to explain multiple problems

Question

How to embrace AI without being replaced by it

Answers

Santiago ✔
@svpino

AI will not replace you. A person using AI will.

8:00 AM · Jan 5, 2023 · **3.5M** Views

6,364 Retweets   **684** Quotes   **39.8K** Likes

- AI augmented analysts are more productive
- Add to your responsibility | Solve more complex problems
- Move from sampling based to alert based systems
- Inspect the results and approve the decisions

Question

What are the best and easiest ways to train the machine

Answers

- Anomaly detection with unsupervised learning – no labels
- Leverage already labelled data
- Use pre-trained models
- Upgrade high volume rules based systems
- Start with all the main features, not a subset
- Start with Random Forest

FIRMA
Fiduciary & Investment Risk Management Association

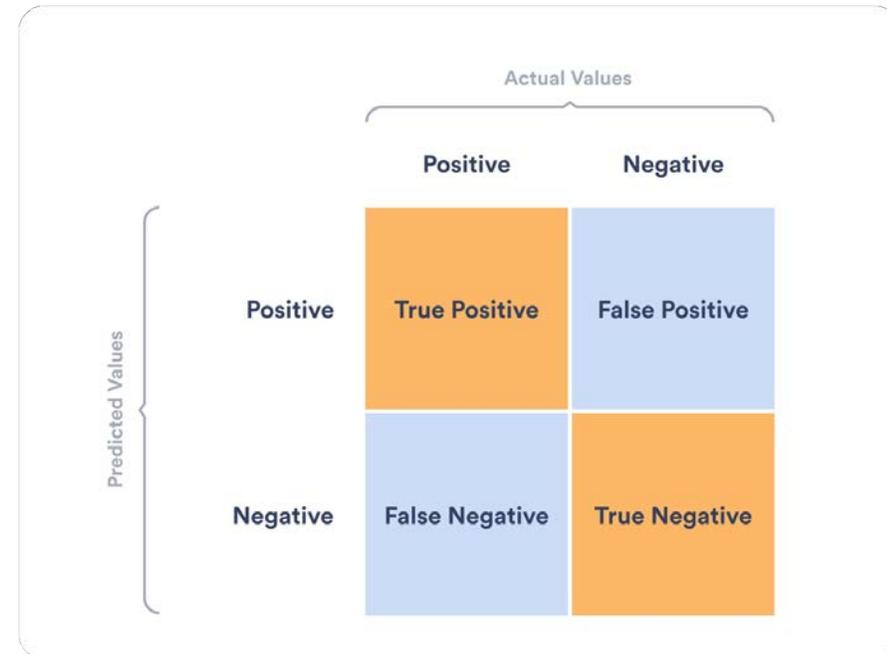|	
Question	# Which projects to solve with AI
Answers	▪ Projects which cannot be solved with math rules ▪ Projects where all the data and processes are in the system ▪ Automated approvals and workflows ▪ Noise reduction ▪ Time consuming reading ▪ Classification, Recommendation, Scoring ▪ Challenging pattern interpretation

Question

How to target less false positives and more true positives

Answers

- Understand the confusion matrix

- Prefer Low stakes noise reduction to high stakes problem identification.

- Tune hyper parameters

- Balance Accuracy vs. F1 Score

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Reinforcement Learning

Bonus Question	# How to manage a data science project

Answers

- Democratize the data
- Don't cut corners on data or compute
- Integrate data scientists with engineering and business teams
- Hire multiple data scientists
- Reward for going the last mile | production KPIs
- Keep an eye on motivations
- Quadruple year-one estimates

Bonus Question

How to continually improve AI Models

Answers

- KPIs and Confusion Matrix
- Explainability & Hyper Parameters
- Track model performance and drift
- Reinforcement learning
- More balanced training data
- More Features

Call to Action: List three AI points that will you apply

1.. ✅

2.. ✅

3.. ✅

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