

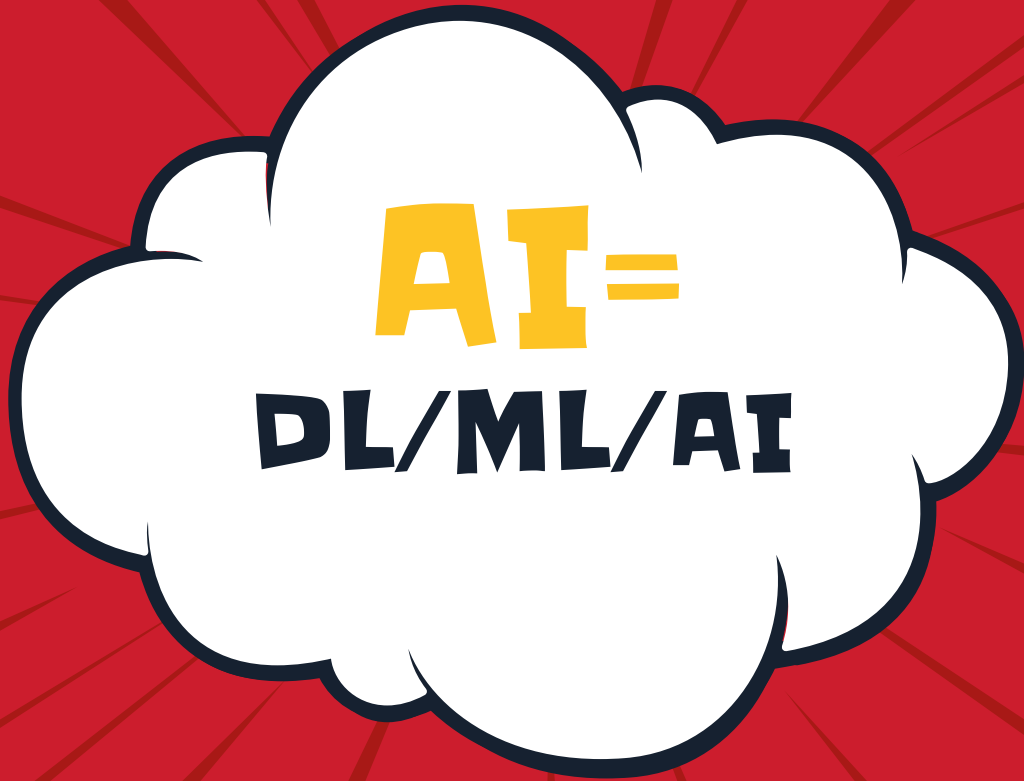


WHY AI Projects Fail

And how to avoid these pitfalls



WHO ARE YOU?



AI=

DL/ML/AI

AI is seen as a Silver Bullet for many of the world's problems



xx% of y think AI
will fundamentally
change how Z
works





Augmented Analysts

Data Inondation

Self Driving Cars

Urban Planning

Human Development

Crime Detection

TYPES OF AI FOR THE DEVELOPING WORLD PAPER

WE'RE COMING TO SAVE YOU BUT THIS TIME WE HAVE AI

AI is the new magic wand. It's the latest and greatest in artificial intelligence, and it's being used to solve some of the world's most pressing problems. From healthcare to education, AI is being used to improve lives and create a better future for all.

LEAPFROGGING AFRICA INTO UTOPIA USING STATE-OF-THE-ART ML

Machine learning is the new frontier in artificial intelligence, and it's being used to solve some of the world's most pressing problems. From healthcare to education, machine learning is being used to improve lives and create a better future for all.

WE USED SATELLITE IMAGE DATA TO MAP POVERTY

Satellite image data is being used to map poverty and identify areas that need the most help. This data is being used to create targeted interventions and improve the lives of the world's poorest people.

THE ANSWER TO ALL AFRICA'S PROBLEMS LIES IN MORE DATA

Data is the key to solving Africa's problems. More data means better decisions, and better decisions mean a better future for all. We need to invest in data collection and analysis to improve the lives of the world's poorest people.

WE DON'T KNOW HOW TO PRONOUNCE LAGOS BUT WE'LL BUILD YOU COOL GEO-MAP OF THE CITY

Geographic information systems (GIS) are being used to create cool maps of cities like Lagos. These maps can help us understand the world around us and make better decisions about how to live and work in our cities.

FINTECH

Financial technology (fintech) is the new frontier in finance, and it's being used to solve some of the world's most pressing problems. From mobile banking to digital payments, fintech is being used to improve the lives of the world's poorest people.

MORE FINTECH

Financial technology (fintech) is the new frontier in finance, and it's being used to solve some of the world's most pressing problems. From mobile banking to digital payments, fintech is being used to improve the lives of the world's poorest people.

WE, IN SILICON VALLEY, KEEP AWAKE AT NIGHT WORRYING ABOUT THE UNBANKED WOMEN OF AFRICA

Financial technology (fintech) is the new frontier in finance, and it's being used to solve some of the world's most pressing problems. From mobile banking to digital payments, fintech is being used to improve the lives of the world's poorest people.

FOOD SCARCITY? WE HAVE AN AI SOLUTION

Artificial intelligence (AI) is being used to solve some of the world's most pressing problems, including food scarcity. AI is being used to improve crop yields and reduce food waste, helping to feed the world's growing population.

THE REFUGEE PROBLEM: WE USED FACIAL RECOGNITION TO SOLVE IT

Facial recognition technology is being used to solve the refugee problem. This technology can help identify and track refugees, making it easier to provide them with the help they need.

BASED ON A CONVERSATION WITH MY GHANAZAN FRIEND, HERE'S WHAT I THINK AFRICA NEEDS

Based on a conversation with my Ghanaian friend, here's what I think Africa needs: more investment in education, healthcare, and infrastructure. We need to create a better future for all.

OF COURSE FACEBOOK IS THE INTERNET

Facebook is the internet. It's the only way to connect with friends and family, and it's the only way to stay up-to-date on the latest news and events. Facebook is the internet.



AI is AMAZING



**YES, YES IT
IS,
but...**



85%
Of all AI
Projects
FAIL!!

WHY

**DO SO many AI
PROJECTS FAIL**



Lots of Reasons Here are Nine



Talent

**Data
Science/Software
Conflict**

Lack of Data

Labeling

Data Ownership

Collaboration

**Technical Not
Feasible**

Not Defining Done

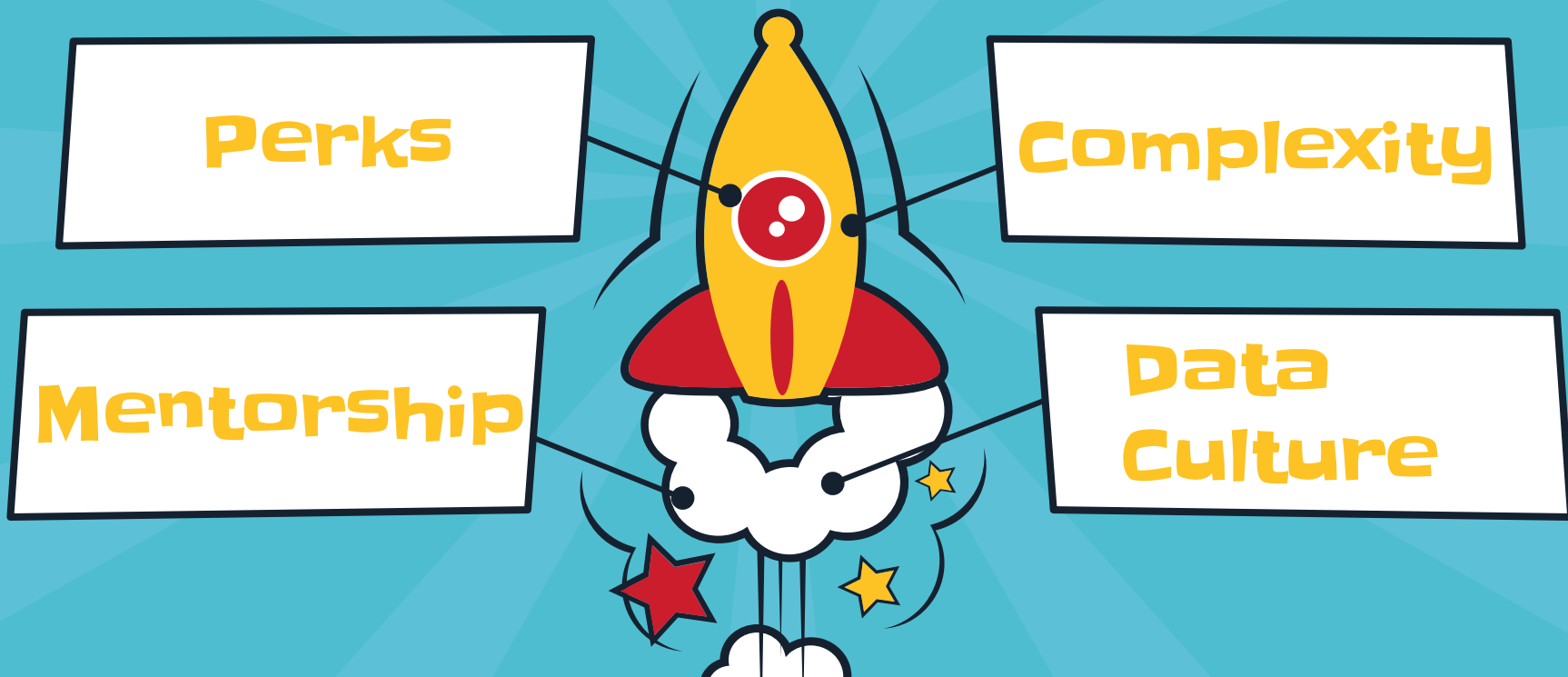
Leadership Support

Talent - Problems

- Immature Ecosystem
- Lots of Training - Few Experienced
- AI Tool development is still building
- Turnover



Talent - “Solutions”




Disconnect between Software and Data



- **Data Development Process**
- **Data Involves Research and Iteration**
- **Leadership Issues**
- **Clear Deliverables and Product Delivery**



- 
- Cross Pollination of Data/Software Teams
 - Education of Software and Data Teams
 - Leadership Champion

Data and Data Quality - Problems



- Not enough Data
- Data Quality is Low
- Data isn't ready
- Unable to merge Datasets
- IT Issues
- Cost (Storage and Egress)
- Time

Data and Data Quality - Solutions



- Purchase Analyst Ready Data
- Train Geo/Data Science Assets how to estimate Cloud Costs
- Data Relationships
- Reconfigure Data Pipelines

Labeling - Problems



- Lack of Purchasable Labeled Data
- Resource Intensive
- Requires Domain Knowledge
- Difficult Work, lead to Turnover

Labeling - Solutions



- Corporate Investment
- Standardized Processes
- Attempt to Automate

Data is Siloed - Problem

- No Standard Data Structure
- Security
- Not Discoverable
- Wrong Data Type
- Lack of Collaboration



Data is Siloed - Solution

- Increase Communication
- Security Standards
- Data Standards
- Centralized Data Platform



Technically not Feasible - Problems

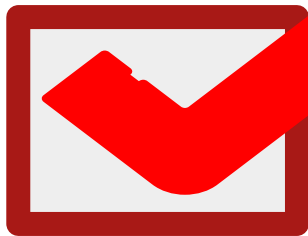


- Technology Zealots
- Infrastructure Issues
- Too Expensive
- Loss of Confidence

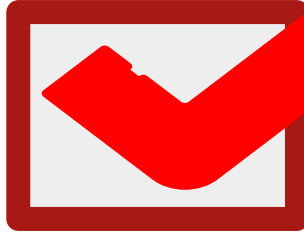
Technically Not Feasible - Solutions



- Iterative Processes
- IT Planning
- Research Feasibility
- Understand Costs



**Not
Defining
Done**



- Start with the end in mind
- Avoid Scope/Model Creep
- Manage FOMO
- Perfect is the Enemy of Done

Leadership Support



- Focused on ROI
- Unsure of Science
- Wow Factor Fatigue
- Loses Confidence

Leadership Support



- Feedback Loop
- Education
- AI Champion
- Communication

**We need to
Remember...**



Failure isn't a BAD thing



- **Failure is how you Learn**
- **Failure Provides Answers**
- **Failure Creates Opportunities**
- **Failure Allows you to Fix your concept**
- **Failure Helps you Grow**

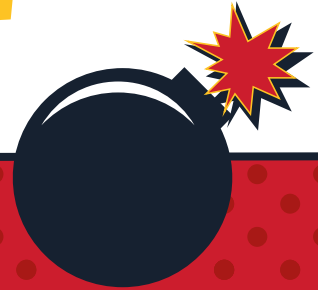
**“ I have not failed. I have
simply found 10000 ways that
do not work.”**

-Thomas Edison

“ Failure is an option here. If things are not failing, you are not innovating enough”

-Elon Musk

Fail Fast



THANKS

Todd.Barr@Gmail

www.linkedin.com/in/toddbarr