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# Blue Collar AI

February 2021

# CONFUSION MATRIX

Decision Scientist

Analytics Professional

Quality Analyst

Program Analyst

Risk Analyst

Business Analyst

Research Scientist

Actuarial Scientist

# Statistician

Advanced Analytics Specialist

Text Analyst

Data Farmer

Mathematician

Computer Vision Specialist

ORSA

Data Visualization Specialist

Data Miner

# Machine Learning Engineer

Data Journalist

Analytic Practitioner

# Data Engineer

Automation Engineer

# Developer

Operations Researcher

Spatial Scientist

Analytics Consultant

# AI Engineer

# Data Strategist

Computer Programmer

# CONFUSION MATRIX

	Data Analyst	Machine Learning Engineer	Data Engineer	Data Scientist
Programming Tools	Very important	Very important	Very important	Very important
Data Visualization and Communication	Very important	Somewhat important	Somewhat important	Very important
Data Intuition	Somewhat important	Very important	Somewhat important	Very important
Statistics	Somewhat important	Very important	Somewhat important	Very important
Data Wrangling	Not that important	Not that important	Very important	Very important
Machine Learning	Not that important	Very important	Not that important	Very important
Software Engineering	Not that important	Somewhat important	Very important	Somewhat important
Multivariable Calculus and Linear Algebra	Not that important	Very important	Not that important	Somewhat important

● Not that important   ● Somewhat important   ● Very important

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ORSA Data Visualization

M

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Analytic P

Developer

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Computer Programmer

Analyst

Actuarial Scientist

Text Analyst

Specialist

Engineer

Automation Engineer

Scientist

Strategist

## Communities of Practice

- Automation
- Computer Vision
- Data Blending
- Data Engineering
- Data Labelling
- Data Operations
- Data Visualization
- Decision Science
- GeoInt
- Human Factors
- Machine Learning
- Natural Language Processing/Generation
- Optimization
- Simulation
- UI/UX

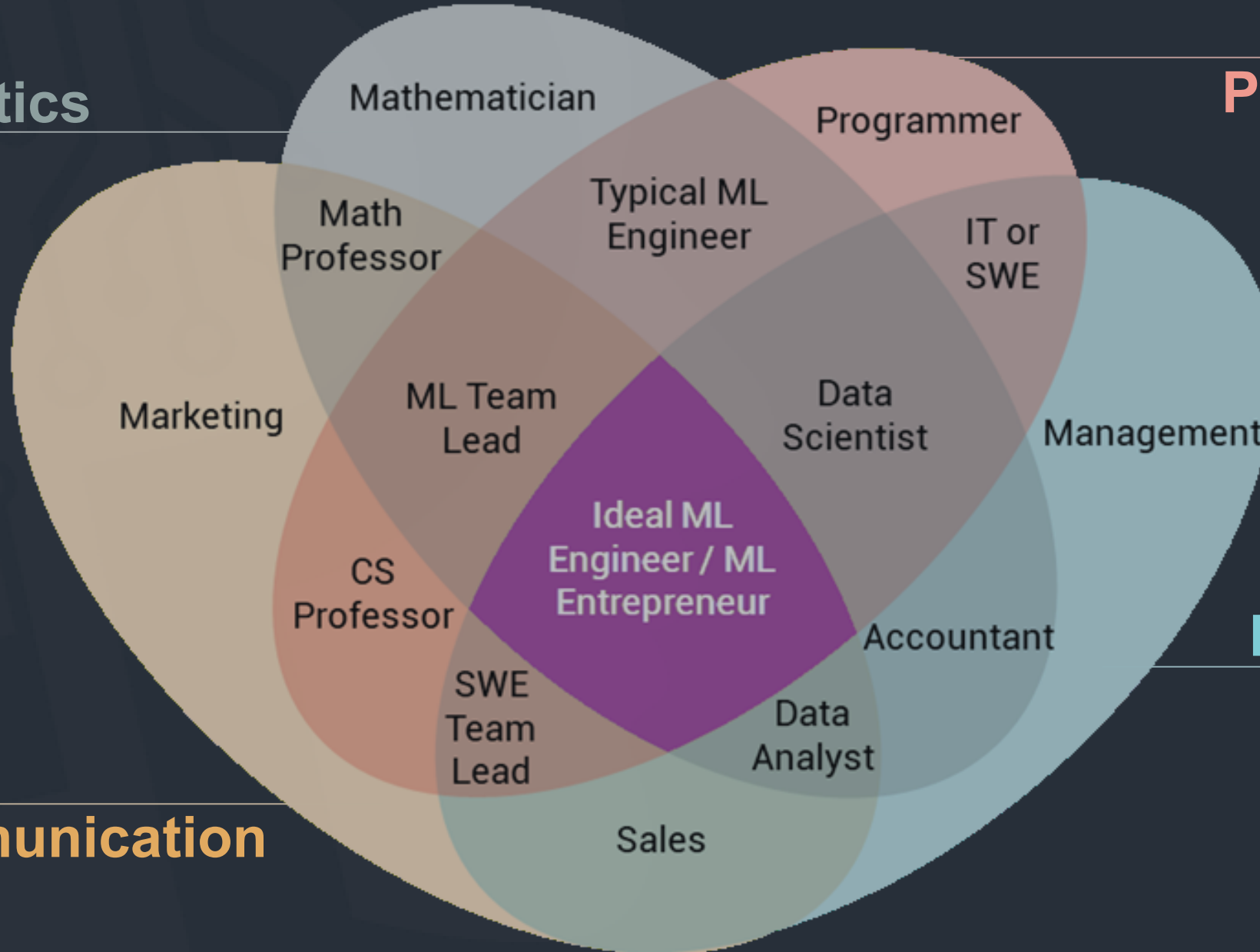
## Business Applications

- Consumer & Market
- Cyber Security
- Environmental Science & Conservation
- Life Science & Health
- Logistics & Supply Chain
- Network & Cloud
- Pricing & Promotion
- Program Management
- Special Operations
- Talent & Human Resources

# FLAVORS OF ML?!

**Mathematics**

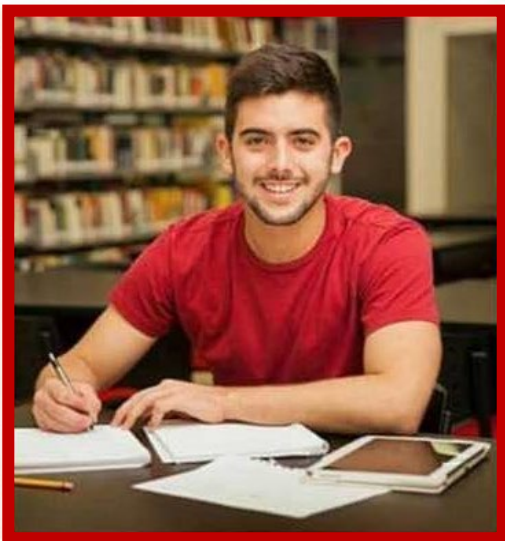
**Programming**



**Business**

**Communication**

# TALE OF TWO ADAMS



FARMERS,  
MINERS, ...

WELDERS

- BACHELORS DEGREE IN PHILOSOPHY
- 100K STUDENT DEBT
- CAN'T FIND A PHILOSOPHY JOB
- BELIEVES PEOPLE WITHOUT COLLEGE DEGREES ARE STUPID

- 4 YEAR PAID APPRENTICESHIP
- NO STUDENT DEBT
- EARNS 80K ANNUALLY
- DISCONNECTED ADAM'S ELECTRICITY

# OUR GREATEST CHALLENGE



undisciplined



uncredentialed



ungoverned

# OUR GREATEST HOPE



farmer



miner



welder



# THANK YOU

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