Utilizing IT Platforms to Enhance Youth Employment

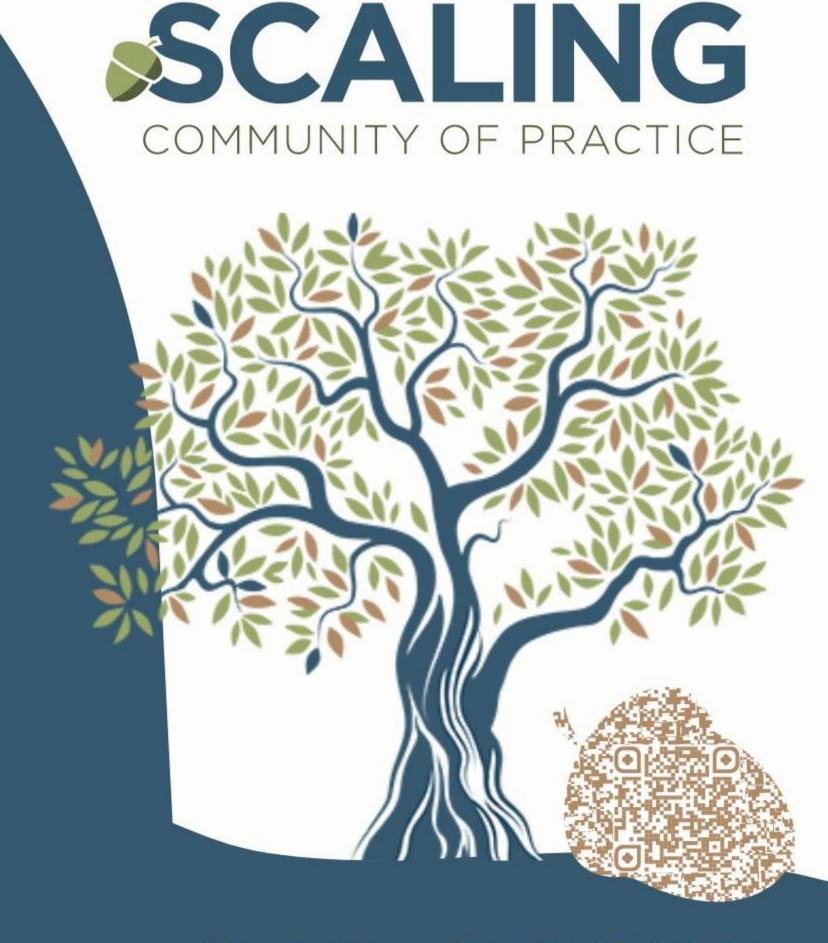
SPEAKERS

- Professor Jennifer DeBoer, Purdue University
- Dr. Hisham Kassab, Independent Consultant

MODERATOR

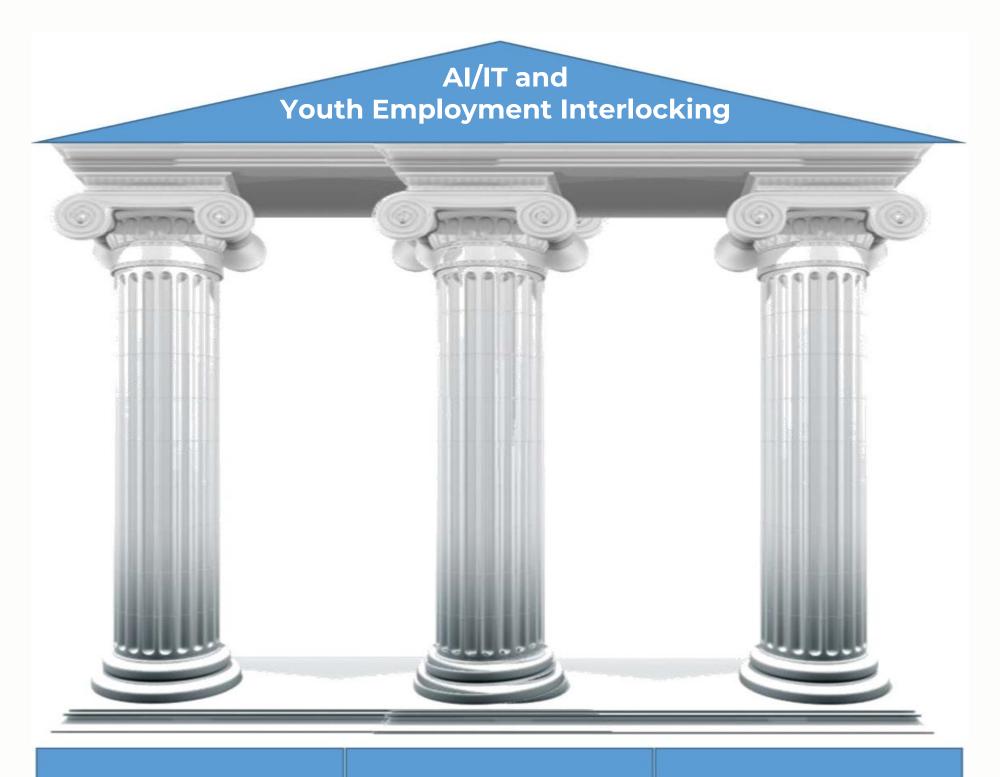
• Larry Cooley, MSI, A Tetra Tech Company

11 JUNE 2024



SCAN TO JOIN THE COMMUNITY OF PRACTICE!

Interlocks



Job Disciplines

Job Matching

Mentoring & Training





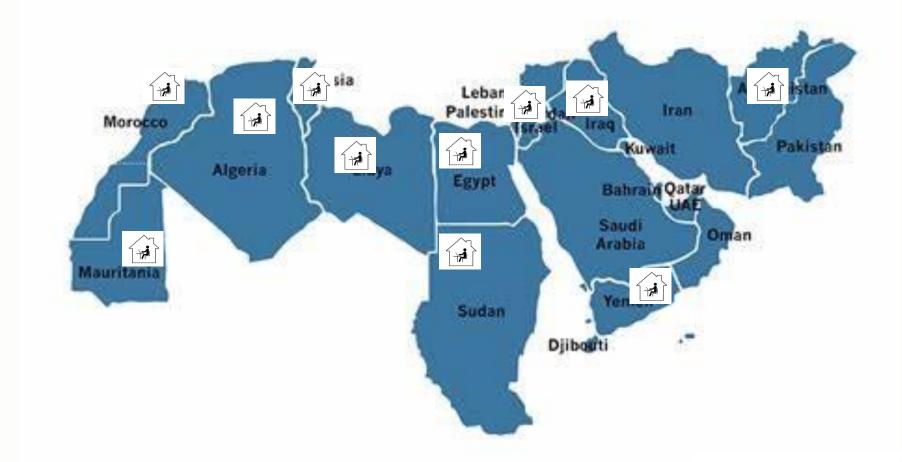


Case Study 1

Remote Employment of Local MENA STEM Workers



Vision: Local employees – remote employers







Remote-Work Technology













Culture

Wide acceptance accelerated by Covid

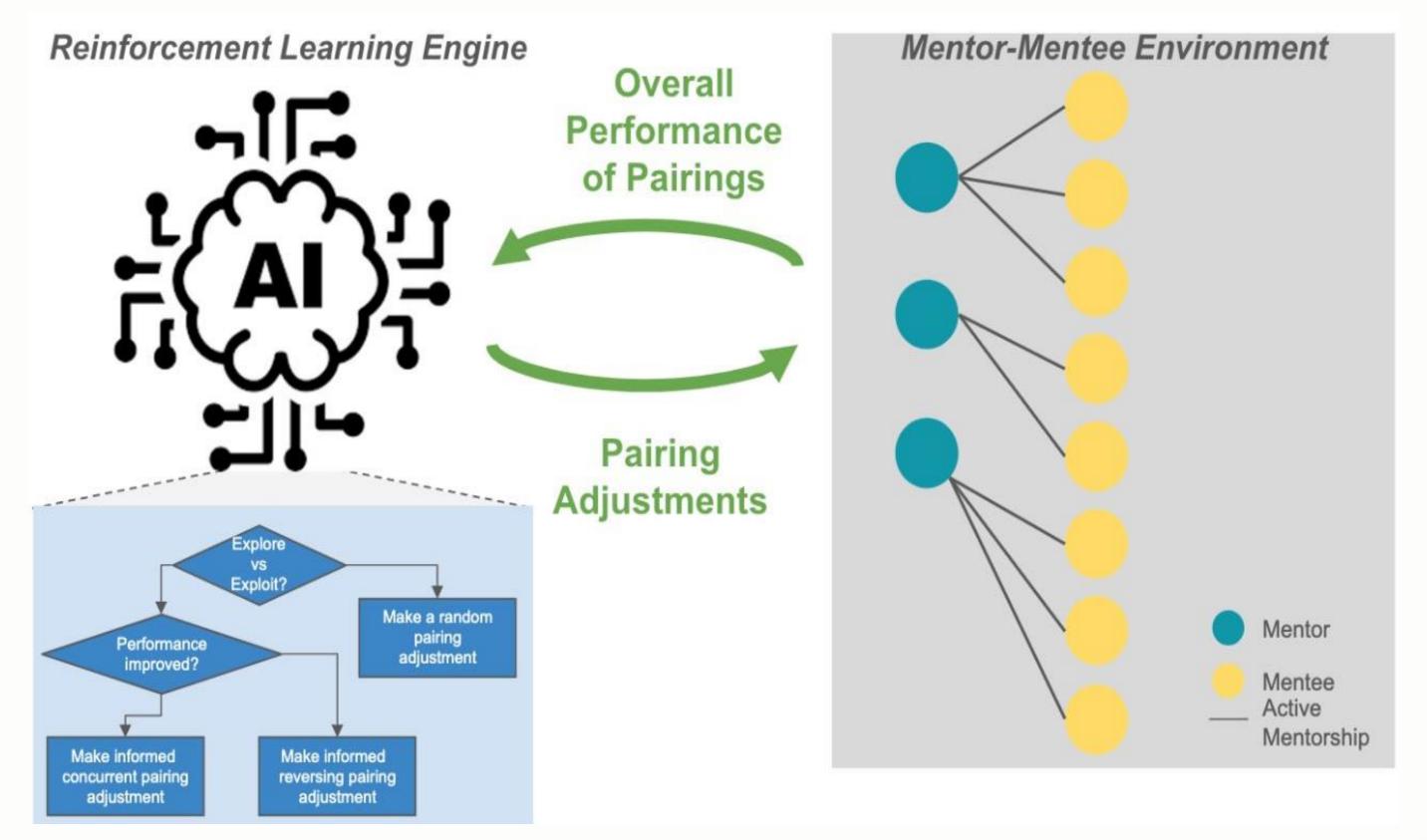
Highly productive for certain job families including software development

Collaboration across different international time zones increasingly common

Geographically Agnostic Remote Work a Reality Today

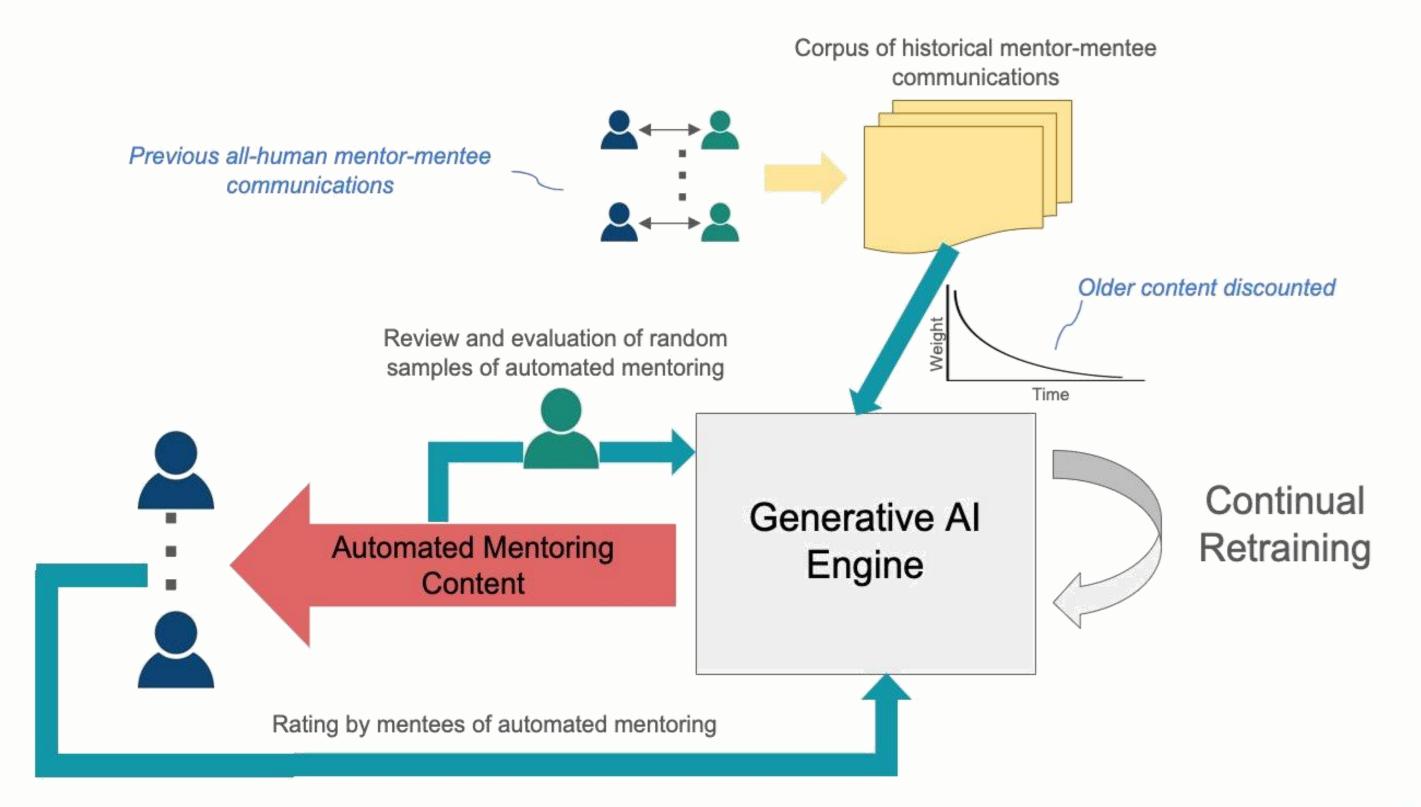


Al for Mentor-Mentee Matching



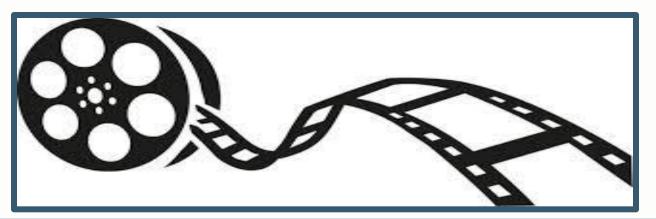


Al for Scalable & Personalized Mentoring

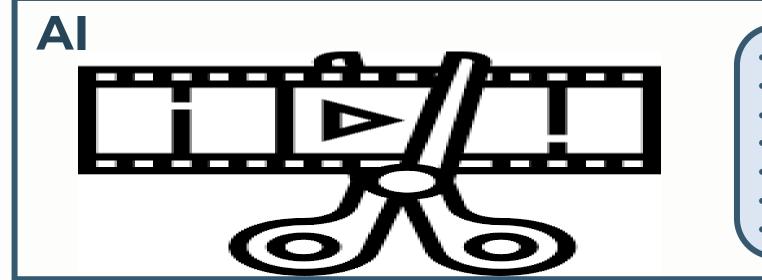




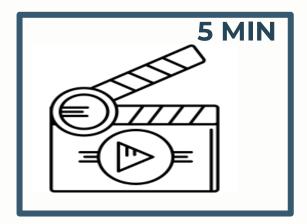
Al for Scalable & Personalized Training and Upskilling

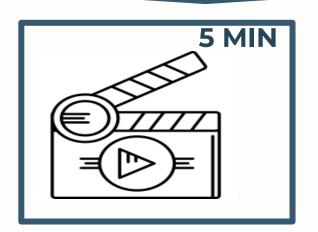


Raw Training Material

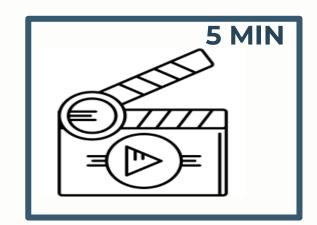


- Previous trainings
- Previous test scores
- Self-identified needs
- Gender
- Home country
- Dialect
- Etc.



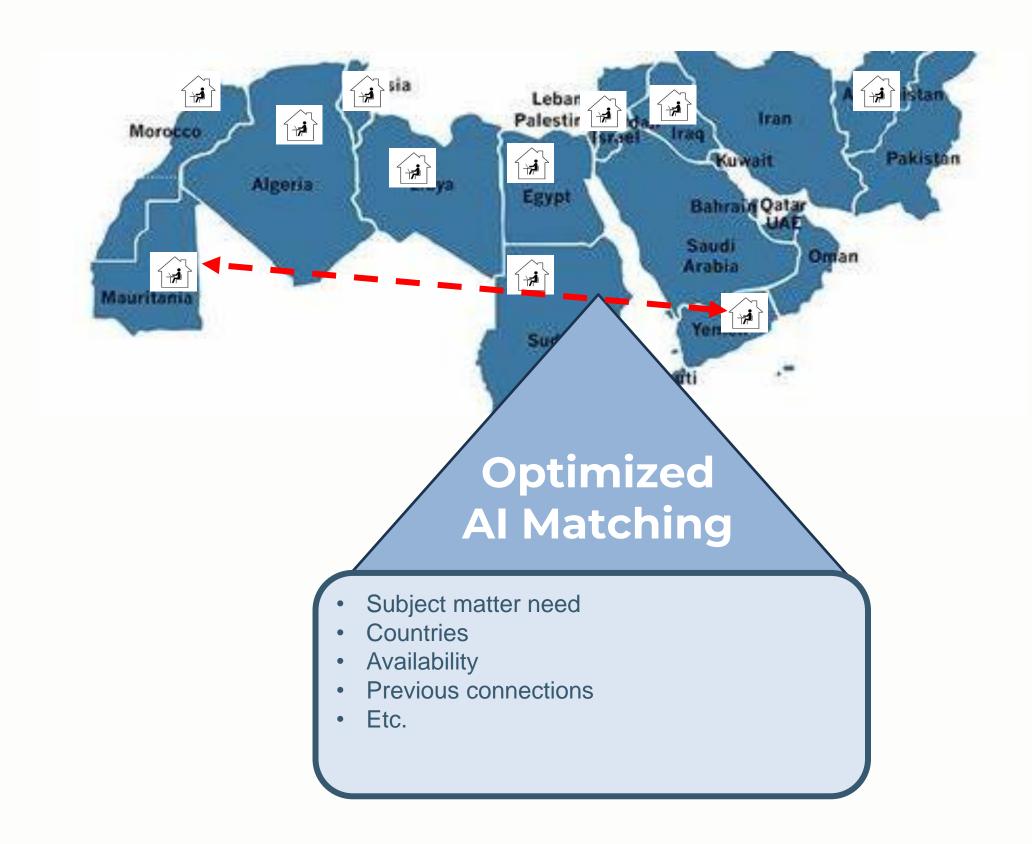






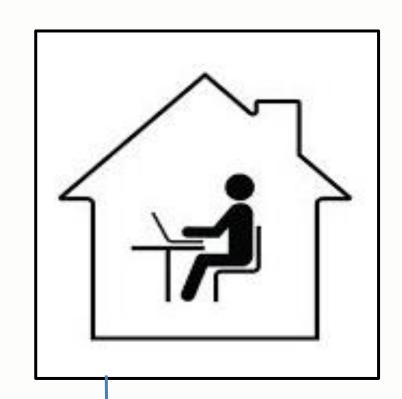


Al for On-The-Job Learning and Peer Support





Al for Empowering Corporate Communication



"This is very important for me"









Case Study 2

Jordan Cyber Academy



Program Schedule:

May 1- July 30: Weekly virtual training in the fundamentals of cybersecurity

August 26-September 24: In-person cybersecurity boot camp at PSUT, Amman.

September 23 – December 13: Weekly virtual exploration of cybersecurity career paths, study and scholarship opportunities, and professional networking















Collaborative partnership for training in new data skills and Job Matching

instructors from Purdue University, Princess Sumaya University for Technology, and industry



- Nature, scope, and urgency of cybersecurity landscape
- Types of threats and Basic preventive actions
- Introduction to cryptography
- Individual cybersecurity threats& precautions
- Enterprise-level cybersecurity systems & management



Curriculum

Program designed to: (1) give 50 Jordanian youths (18-24 year olds) foundational cyber skills training; (2) give the cohort exposure to 35+ recognized cyber career pathways

Recruiting began in Dec. 2023; 908 applications for 50 spots; final 50 includes students from every governorate of Jordan.

Phase 1 Phase 2 Phase 3

Virtual intro baseline of cyber knowledge

In-person boot camp

Virtual career exploration







Industry mentors serve as...

- **Job shadow hosts:** small group of participants (1-5) at your company for four half-day sessions during boot camp
- Career pathways speaker: During the second virtual training session, speakers representing a broad range of cyber careers do a short presentation
- Mentor: Serve as a virtual mentor to participants following the boot camp
- Scholarship provider: opportunities for learners in the academy to gain industry credentials (eg. CISCO or CompTIA certifications)
- Investor: Over the long-term, build a more comprehensive cyber school that can serve more participants and create a broader pipeline of practitioners investment.



Question 4

☐ Bookmark this page

This question teaches you how to find yield to maturity (YTM) of a bond.

Consider a 3-year bond with annual payments, the principal payment of \$100 at maturity, and the coupon rate of 5.25%. Current spot interest rates are as follows: the 1-year rate is 1.1%, the 2-year rate is 1.15%, and the 3-year rate is 1.50%. Compute the yield to maturity on this bond.

STAFF DEBUG INF



Previous Next >

Case Study 3

MIT Mfin MicroMasters



MicroMasters in Finance: Overview

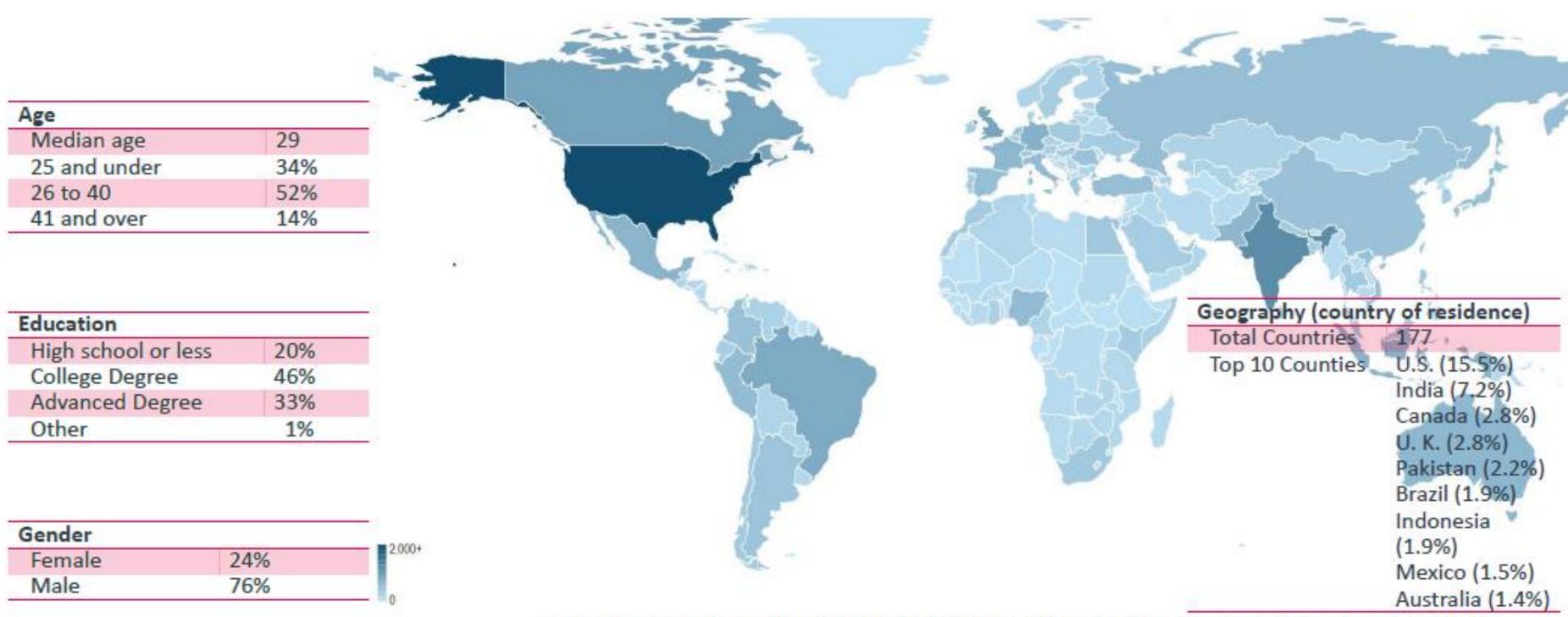
• 5 courses, 12 weeks each, \$450 per course.

65,000 enrolled from 177 countries.

 Diverse demographics: college students, professionals, 15% of learners over 41 years of age.

Median age: 29.

LEARNER DEMOGRAPHICS*



*Enrollments for 15.415.1x of October 14, 2020. Currently representative of demographics across all five courses. Demographic information for individual courses is available upon request. All data is self-reported.

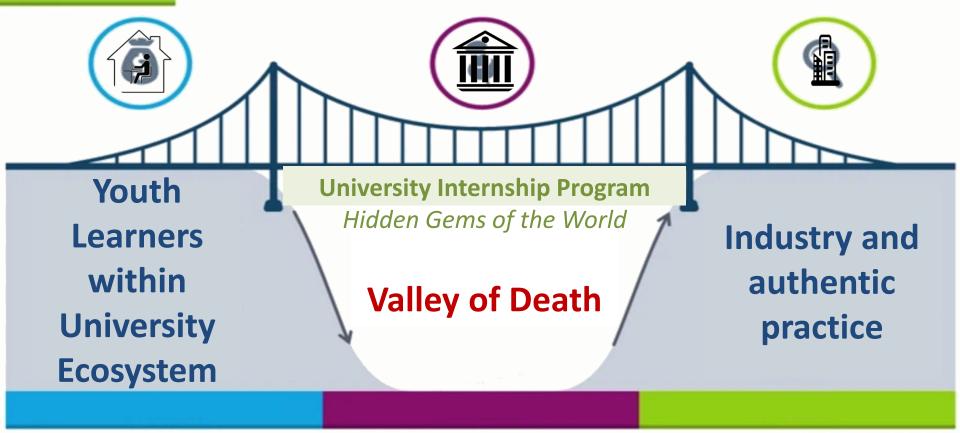
MODULAR STRUCTURE & FEEDBACK TOOLS

Video 15.415 by Foundations of Modern Finance (Week 4: Fixed Income **Key Concepts** Module 1: Introduction Module 2: Yield Curve ■ Module 3: Discount versus Coupon Bonds ■ Module 4: Relative Bond Valuation Module 5: Yield To Maturity ■ Module 6: Yield Curve Dynamics ■ Module 7: Interest Rate Risk and Bond Duration ■ Module 8: Bond Duration and Convexity ■ Module 9: Inflation Risk ID2020 Kogan and Wang 0:00 / 0:00 ▶ Speed 1.0x ≪

point possible (ungraded)		
Consider a two-year discount bond. One- and two-year spot interest rates are r_1 and r_2 . Does the yield to maturity	on this bond of	amend on t
caracter a time-year discount dates, or the land strong as agon, interest rates are 71 and 72 about the great or fracting	Court trans proving the	spanio on n
○ Yes		
○ No ❤		
Explanation By definition, yield to maturity on this band equals r_1 , and hence does not depend on r_1 .		
Submit: You have used that I alse ogn	to have	Show Market
Concept Check 2		
UT paint (ungraded)		
folding everything else equal, yield to maturity is increasing with the bond coupon rate:		
○ #wystrue		
O Hrmys false.		
Depends on the yield curve.		
~		
Explanation Yield to muturity (YTM) is determined by the spot interest rates across maturities, and by the bond coupon rate an average of spot interest rates. As we change the coupon rate, the direction of the resulting impact on the YTM deportry. As an example, suppose the spot interest rates are		
$r_1 = 5\%, r_2 = 3\%$		
aran kalang kalang kalang ang kalang kal	21011111111111111111111111111111111111	
and consider two Bonds, both maturing in two years. Bond A pays no coupons (coupon rate is zero), Bond B pays a FTM of bond A is 3%, YTM of bond B is 3.05% YTM is Algher for the bond with a higher coupon rate. Next, change the yield curve to	5% coupon.	
$r_1 = 3\%, r_2 = 5\%$		
and consider the same two bonds. YTM of bond A is SK, YTM of bond B is 4.95% — YTM is lower for the bond with a	highercoupon	rute.
Suite to the used to difference.		0
		70.00

The Power of Internships

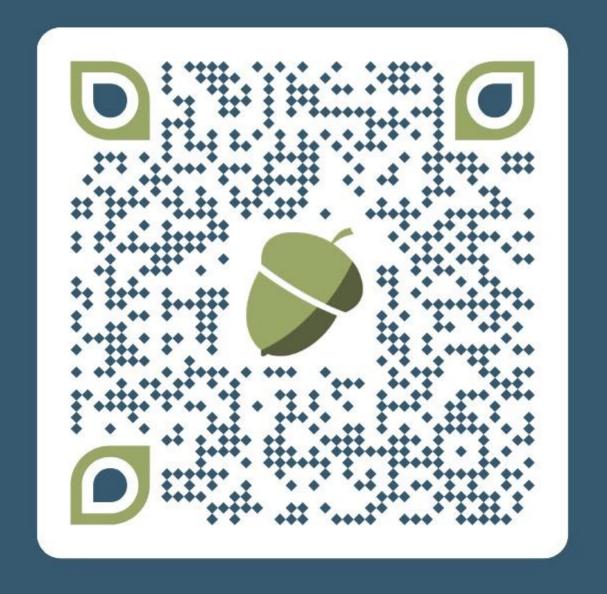












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