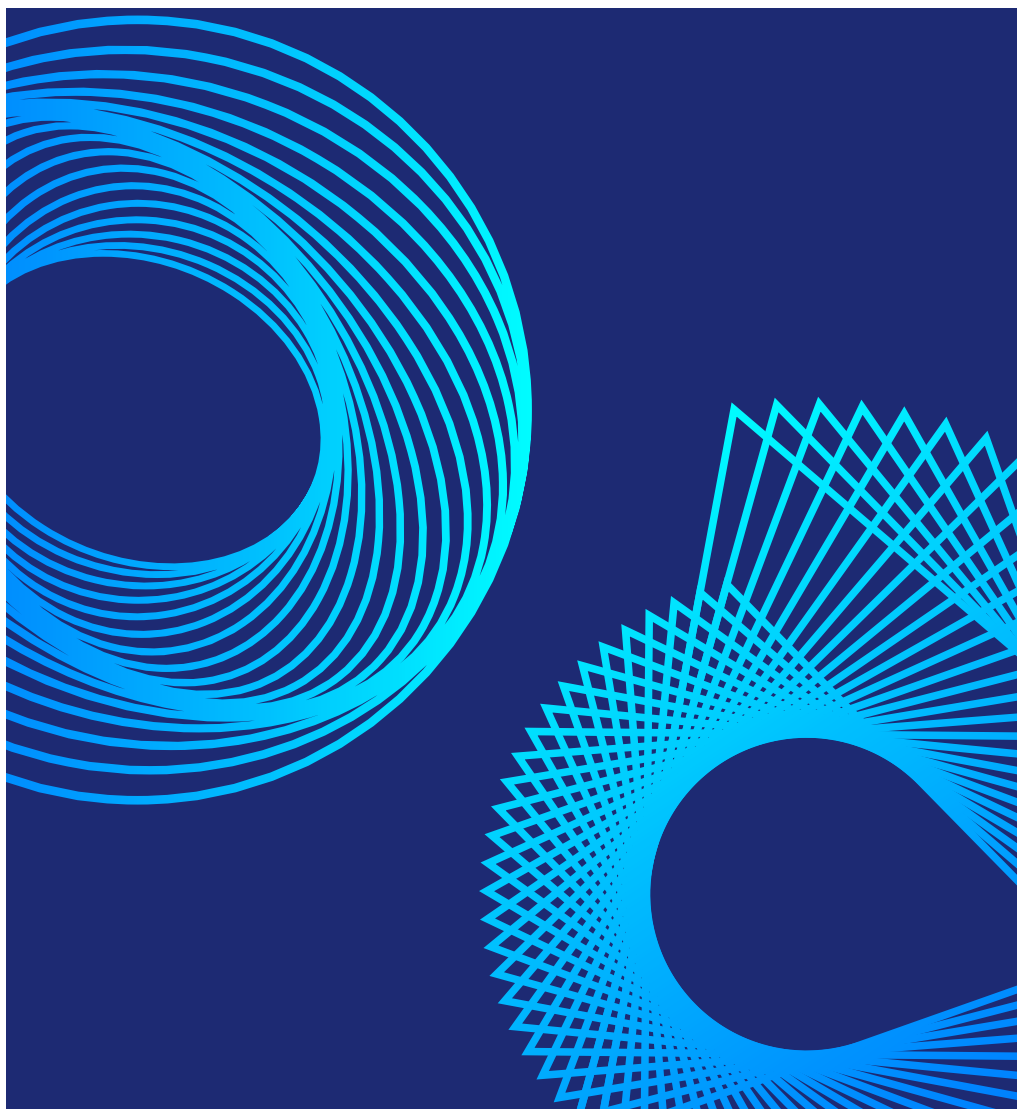


Univ.AI

Prospectus

Academic Year 2020/21





*Your journey at Univ.AI will challenge you to
bring out your best, and for those of you
who rise to the challenge, our promise is -
you'll be among the best AI professionals in
the world.*

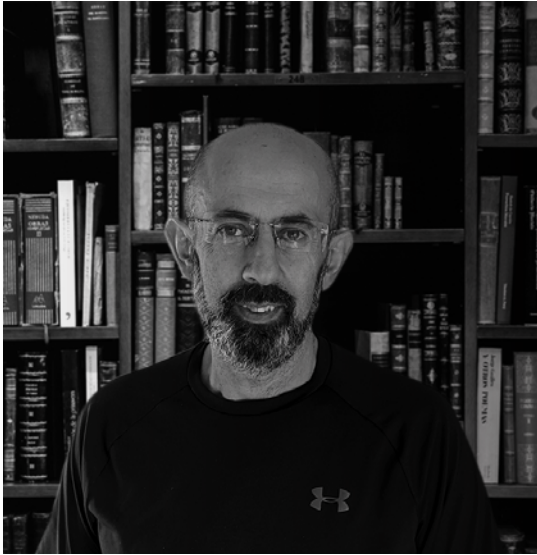
Welcome to Univ.AI

Rahul Dave

Co-Founder, Univ.AI

Former Lecturer, Harvard University

HOW IT WORKS



“

We created Univ.AI to provide you cutting-edge AI education. I, and other faculty from top tier universities in the US will teach you live. Our focus is on hands-on mentoring. At Univ.AI, you get more live mentorship than anywhere else in the world, even at universities like mine, Harvard.

-Pavlos Protopapas

Founding Faculty, Univ.AI
Scientific Director, Institute for Applied
Computational Science, Harvard University

INTERACTIVE LIVE LECTURES

Celebrated professors teach classes in short 15-20 minute segments, each followed by a quick problem, to ensure engaged learning.

GUIDED HANDS-ON LABS

Both during, and at the end of each lecture, mentors guide their assigned study groups through a highly interactive hands-on lab.

END-OF-MODULE PROJECTS

At the end of each module, you work on a complex problem that challenges you to apply what you learned during the module.

INTENSIVE MENTORSHIP

Univ.AI mentors keep scheduled office hours where members of your study group can log on and discuss via video.

TWO-TIER HOMEWORKS

Problem-sets test and reinforce your understanding of key concepts covered in the classes.

ADVANCED CAPSTONE

For all Master & Advanced Programs, you work on a 10-12 week long Capstone Project either with one of our partner companies, or with faculty from around the world.

MENTORSHIP

At the start of a module, you are assigned a mentor who advises you and about 14 others through the duration of the module. Your mentor runs live labs right after the lectures so that you can clear residual doubts, and learn to apply new ideas, while they are still fresh in your memory. They hold 10+ live office hours online for you to log on and seek guidance. Mentors supervise project work, evaluate your performance and are there for you when you need help.

STRUCTURE

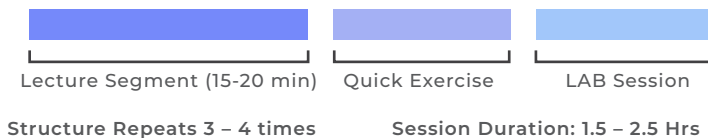
A program consists of one or more modules conducted live online
Example: The Master AI program consists of 6 modules, a capstone project and optional electives. Modules have a standard structure.

MODULE



A module consists of 5 weeks of work. The first 4 are lectures, labs and home work. The 5th week is a project week.

SESSION ARCHITECTURE



- Sessions are divided into short segments of 15-20 minutes each.
- Each segment is followed by a quiz which is graded.
- At the end of a session your mentor conducts a live lab on video with your group.

PROGRAMS

We offer two flagship programs - one in Artificial Intelligence, and another in Data Science and Engineering. We also have a series of shorter, focused programs for learners at all levels of proficiency - from the beginner to the expert. Cohorts start every 3 months so that you can create a schedule and pace that works for you.

FLAGSHIP PROGRAMS



Master AI

Certificate in Artificial Intelligence

Next Cohort – August 15, 2020



Master DSE

Certificate in Data Science and Engineering

Next Cohort – August 15, 2020

FOCUSED PROGRAMS



Foundations

Prepare to learn Data Science and AI

Next Cohort – July 1, 2020



Accelerated

Fast Certificate in Data Science and AI

Next Cohort – August 15, 2020



Advanced AI

Advanced studies in Artificial Intelligence

Next Cohort – Coming soon



Advanced DSE

Advanced studies in Data Science and Engineering

Next Cohort – Coming soon



Master AI

Certificate in Artificial Intelligence

This 11-month program equips you to seek top Artificial Intelligence(AI) positions anywhere on the planet, or apply to the world's best schools for an advanced MS or PhD.

DESCRIPTION

We begin by first training you in fundamental skills in Machine Learning and Data Science. Advanced Modules enable you to develop deep expertise in AI including Natural Language Processing, Generative Models and Reinforcement Learning. At the end of the program, you will be a master in creating AI models in any domain you choose, such as medicine, finance and e-commerce.

Next Cohort – August 15, 2020

APPLY

- 11 months, 10-12 hours per week
- 6 Modules of 5 weeks each + Optional Electives
- 10-week Capstone Project
- ₹ 2,90,000

LEARN MORE

MODULES

AI 1: ML/AI Basics

DSE1: Data Analytics & Modeling

AI 2: Convolutional & Recurrent AI

DSE 2: Modeling & Decision Making

AI 3: Advanced AI

AI 4: Deep Reinforcement Learning

AI 5: Deep Generative Models

AS 1: Regression, Causal Inference & Experimental Design

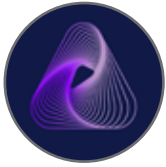
AS 2: Unsupervised Learning & Bayesian Statistics

Capstone in AI

DSE 3: Data Operations & Application Engineering

DSE 4: Large Scale Data Science, Ops & Engineering

Capstone in Data Science & Engineering



Master DSE

Certificate in Data Science and Engineering

This 11-month program equips you to seek top Data Science & Engineering opportunities anywhere on the planet.

DESCRIPTION

The Program starts off with fundamental skills in Machine Learning and Data Science. Advanced modules build on this for you to develop deep expertise in Data Science & Engineering, including large-data, databases, cluster DevOps, and performant applications. Upon completion, you will be a wizard at building cutting-edge Data Science and AI applications with complex embedded models and state-of-the-art AI pipelines.

Next Cohort – August 15, 2020

APPLY

- 11 months, 10-12 hours per week
- 6 Modules of 5 weeks each + Optional Electives
- 10-week Capstone Project
- ₹ 2,70,000

LEARN MORE

MODULES

AI 1: ML/AI Basics

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Capstone in AI

DSE 3: Data Operations & Application Engineering

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Capstone in Data Science & Engineering



Foundations

Prepare to learn Data Science and AI

This is a 5-week intensive program for everyone who wants to start their journey in Data Science, Machine Learning and Artificial Intelligence.

DESCRIPTION

This program is for everyone who is considering the possibility of a career in Data Science and Artificial Intelligence but does not feel ready to jump right in. In this short program you will gain numerical Python and software development skills that will make AI coding easy. You will also learn required calculus, linear algebra, and statistics skills that will make mastering AI easy. After finishing this program you will be very well placed to take our Master AI, Master DSE, or our Accelerated AI & DSE Certificates. Open up the future!

Next Cohort – July 1, 2020

[APPLY](#)

- 5 weeks
- 10-12 hours per week + project
- ₹12,500

[LEARN MORE](#)

MODULES

Foundation for ML & AI



Accelerated AI & DSE

Fast Certificate in Data Science and AI

This is a 6-month program designed to get you ready for employment quickly at beginner or intermediate level Data Science and ML/AI positions, or to prepare for advanced studies in Data Science and AI.

DESCRIPTION

It is ideal for recent graduates who seek opportunities in ML and AI, and for programmers, engineers and project managers seeking to take their skills to the next level. You will start this program by becoming adept at the fundamental algorithms of machine learning. You will learn how to implement data analytics, visualization and communication using databases and other tools. Over the course of this program, you learn high performant and more complex Machine Learning algorithms, culminating in an ability to use convolutional and recurrent neural networks for a large variety of tasks.

Next Cohort – August 15, 2020

APPLY

- 6 months, 10-12 hours per week
- 4 Modules of 5 weeks each
- ₹ 1,25,000

LEARN MORE

MODULES

AI 1: ML/AI Basics

DSE1: Data Analytics & Modeling

AI 2: Convolutional & Recurrent AI

DSE 2: Modeling & Decision Making

AI 3: Advanced AI

AI 4: Deep Reinforcement Learning

AI 5: Deep Generative Models

AS 1: Regression, Causal Inference & Experimental Design

AS 2: Unsupervised Learning & Bayesian Statistics

Capstone in AI

DSE 3: Data Operations & Application Engineering

DSE 4: Large Scale Data Science, Ops & Engineering

Capstone in Data Science & Engineering



Advanced AI

Certificate for Advanced studies in AI

This is a 6-month program to move from intermediate-level positions in Data Science and AI, and seek top-tier opportunities worldwide.

DESCRIPTION

This program will train you to build state-of-the-art AI models; equip you to read, interpret, and apply concepts in most leading-edge academic papers; and enable you to conduct original research in your area of interest. Topics covered include Natural Language Processing, Generative Modeling, and Reinforcement Learning. By the end of the program, you will be ready to work at a top-tier position in industry, or pursue graduate work at a premier university anywhere in the world.

COMING SOON

- 6 months, 10-12 hours per week
- 2 Modules of 5 weeks each + Optional Electives
- 10-week Capstone Project
- ₹ 1,70,000

LEARN MORE

MODULES

AI 1: ML/AI Basics

DSE1: Data Analytics & Modeling

AI 2: Convolutional & Recurrent AI

DSE 2: Modeling & Decision Making

AI 3: Advanced AI

AI 4: Deep Reinforcement Learning

AI 5: Deep Generative Models

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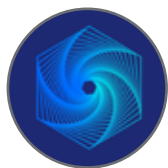
AS 2: Unsupervised Learning & Bayesian Statistics

Capstone in AI

DSE 3: Data Operations & Application Engineering

DSE 4: Large Scale Data Science, Ops & Engineering

Capstone in Data Science & Engineering



Advanced DSE

Certificate for Advanced Studies in Data Science & Engineering

This is a 6-month program to move from intermediate level Data Science and AI positions to top-tier opportunities in Data Science and AI Engineering worldwide.

DESCRIPTION

This Program helps you build expert-level competencies in building and deploying models, large scale data analysis, and building analysis clusters, AI pipelines and experiments.

Upon successful completion, you will have a unique combination of science and engineering skills and expertise, and be able to seek the most intellectually and financially rewarding opportunities around the world.

COMING SOON

- 6 months, 10-12 hours per week
- 2 Modules of 5 weeks each + Optional Electives
- 10-week Capstone Project
- ₹ 1,50,000

LEARN MORE

MODULES

AI 1: ML/AI Basics

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DSE 3: Data Operations & Application Engineering

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Capstone in Data Science & Engineering

*I think a lot of people don't understand how deep
AI already is in so many things.*

-Marc Benioff, Salesforce

CAREERS

INDUSTRY

PREPARE FOR AN ELITE CAREER

Our Career Management program specifically seeks out the best employers for you across the entire spectrum - tech companies, startups and Fortune 1000 companies. Univ.AI will identify the most compelling AI and Data Science positions, and provide opportunities to our students to interview for them.

PLACEMENT WEEK

The program highlight is our Placement Week, during which students interview for the best jobs in AI and Data Science. Placement Week will be held every quarter starting in January/February 2021 for our first graduating cohort.

ACADEMIA

Univ.AI is committed to the pursuit of higher learning by its graduates, especially those who would like to go on to Masters or PhD programs at renowned institutions around the world.

MENTORSHIP & RESEARCH

Exceptional students will have ample opportunities to build on their qualifications by taking on mentorship roles, and research opportunities among our network of elite faculty.

GRADUATE SCHOOL APPLICATIONS

Mentors and faculty will closely help with such candidates' graduate applications. Students that have worked with our faculty on research will have possible opportunities to continue graduate work with them at the faculty's principal institutions.

MEET YOUR FACULTY



Rahul Dave

Chief Scientist, Co Founder, Univ.AI
Former Lecturer, Harvard University



Rahul is co-founder of Univ.AI. He was on the original team for Harvard's famous Data Science course, CS109, and has taught Machine Learning, statistics, and AI courses, both at Harvard, and at multiple conferences and workshops. Rahul is an accomplished computational scientist with a strong programming background and a veteran cosmologist. He is super excited about sharing his passion and energy with the students at Univ.AI. Rahul aspires to create the world's top educational institution for AI.



Achuta Kadambi

Founding Faculty, Univ.AI
Assistant Professor, UCLA



Achuta is an Assistant Professor at UCLA where he directs the Visual Machines Group. Powered by Artificial Intelligence, the group creates imaging systems that can see the unseen. Achuta received his PhD from MIT, his BS from UC Berkeley, and has had papers presented at the top venues of computer vision and graphics. Achuta is also co-founder of a Silicon Valley computer vision startup, Akasha.im. Achuta is excited to partner with Univ.AI to train the next generation of technology innovators who strive for social impact. Earlier this year, Achuta was named to the Forbes 30 under 30 list and received the NSF research initiation award.



Pavlos Protopapas

Founding Faculty, Univ.AI
Scientific Program Director, IACS, Harvard University



Pavlos is Scientific Program Director, Institute for Applied Computational Science (IACS), Harvard University, and leads the Data Science masters program at Harvard. Pavlos has a PhD in theoretical physics from the University of Pennsylvania. He was Deputy Director of the National Expandable Clusters Program (NSCP) at the University of Pennsylvania, and was instrumental in creating the Initiative in Innovative Computing (IIC) at Harvard. Pavlos is a co-creator of Univ.AI and wants to build it into an AI powerhouse.



hello@Univ.AI



+91 701 900 5704



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