


SCALER  Advance AI & ML

UNLOCK THE WORLD OF AI & ML

India's Only Practical Program
That Uses Real-World Challenges



Certification from **CEC, IIT Roorkee** with optional **campus** **immersion**



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Learn Through Experiences 04

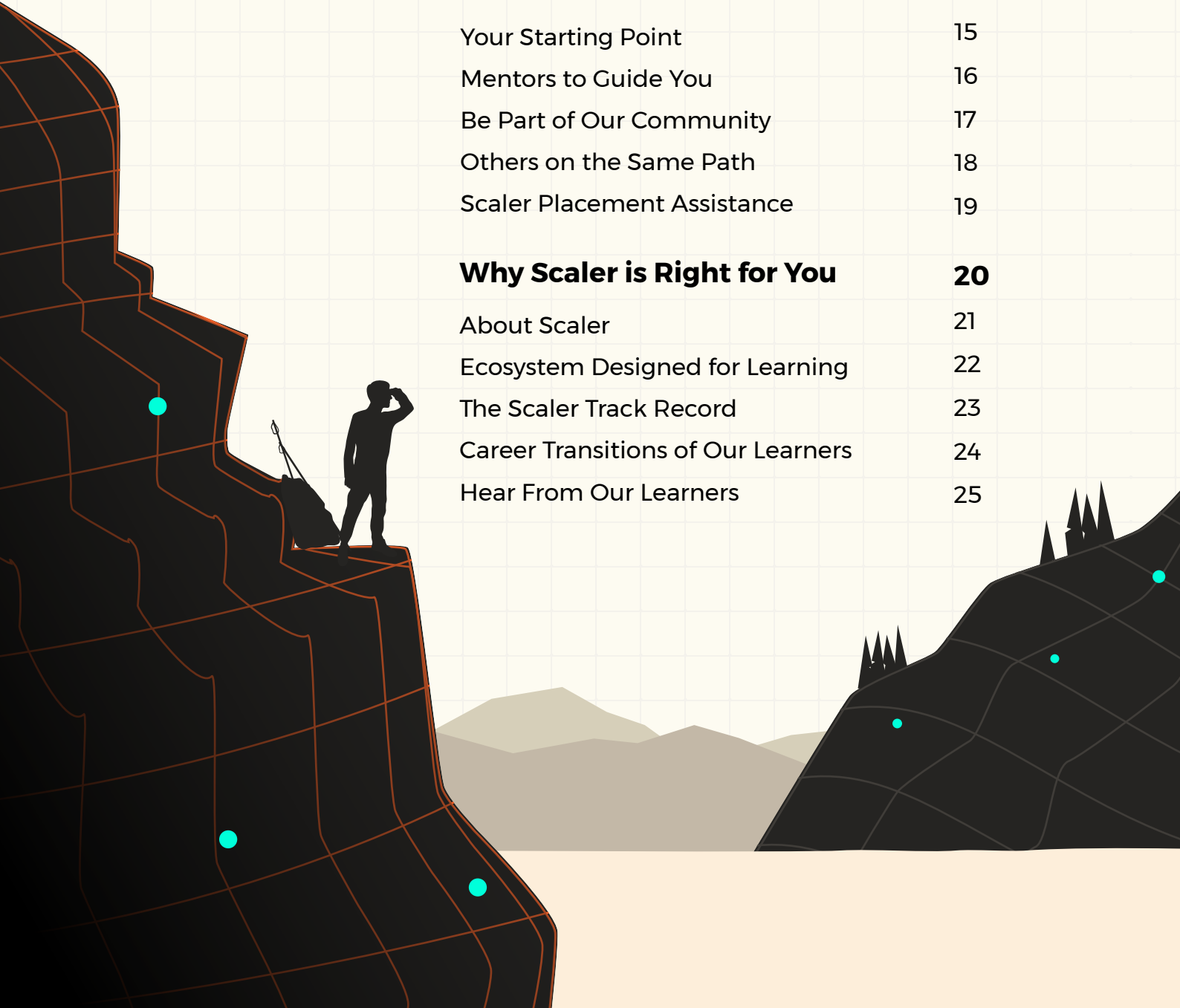
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Course Summary

Program at a Glance



Program Name

Scaler Advanced
AI & ML



Certifications

NSDC
CEC, IIT Roorkee



Mode of Learning

100% Live Learning



Eligibility

Tech professionals



Instructors

AI specialists from
top companies



Program Duration

12 months



Common Outcomes

AI Engineer, ML Engineer,
MLOps Engineer and
Applied Scientist

The Learning Experience



1:1 Industry
mentorship



Practical
application-based
learning



On-demand
Teaching Assistants



Placement
assistance



Network of
20k+ learners



AI-Powered
Mock Interviews



Campus immersion
to IIT Roorkee

Certification from CEC, IIT Rorkee

Once you're done with the complete course you will receive a certificate from IIT Roorkee.



Optional Campus Immersion

- 12 hours of hands-on learning
- IIT-R resources & facilities at your disposal
- Access to research labs with cutting-edge tech
- Fireside chat with industry experts
- Food & accommodation included
- On-campus networking opportunities




Learn Through Experiences

- What the Industry Needs
 - Curriculum Outline
 - Course Summary
 - Certification from CEC, IIT Rorkee
 - Reach New Heights
 - Live Projects During Classes
 - Case Studies You'll Work On
 - Curriculum Advisors
 - Training You to Reach the Top
- 



What the Industry Needs

71% of business leaders said they would rather hire a less experienced candidate with AI skills than a more experienced candidate without them.

– 2024 Work Trend Index Annual Report,
 Microsoft

Here's How We Make You Industry-Ready

Learn From Challenges Being Faced by Tech Titans

- **Live Projects** sourced directly from top tech companies
- **Interactive Classes** centred on practical learning & problem-solving
- **50+ Case Studies** from the industry covered during live classes
- **Selective Admission** to ensure a competitive & focused peer group
- **AI Specialists** from the industry will be mentoring & teaching modules
- **Dedicated Placement Assistance** to help learners secure roles at top firms





Curriculum Outline

• Data Foundations

Numpy / Pandas

EDA

Data Plotting &
Visualisation Basics

Probability
Foundations

• ML Coding (Applied AI-ML)

Machine
Learning

Deep Learning

Open CV

NLP

• LLM & Gen AI Engineering

LLMs, Prompt
Engineering & Security

Eval Pipelines &
Observability (Langfuse)

RAG & RAG
Architecture

• Adv. ML, Adv. Deep Learning, Adv. NLP

Math for ML

Neural Networks

Advanced NLP -
Transformers / GPT

Attention
Mechanisms

• Adv. AI Engineering by CEC, IIT Roorkee

Campus
Immersion

AI in
Healthcare

LLMs for
Productivity in Job

• Some tools you will learn



Hugging Face



Python



Llamaindex



OpenAi



LangChain



AWS

Deep dive into our curriculum

[Know more](#)



Reach New Heights

The skills that you gain during the program will open opportunities in various areas.

Here are some such roles.

📍 Machine Learning (ML) Based Roles

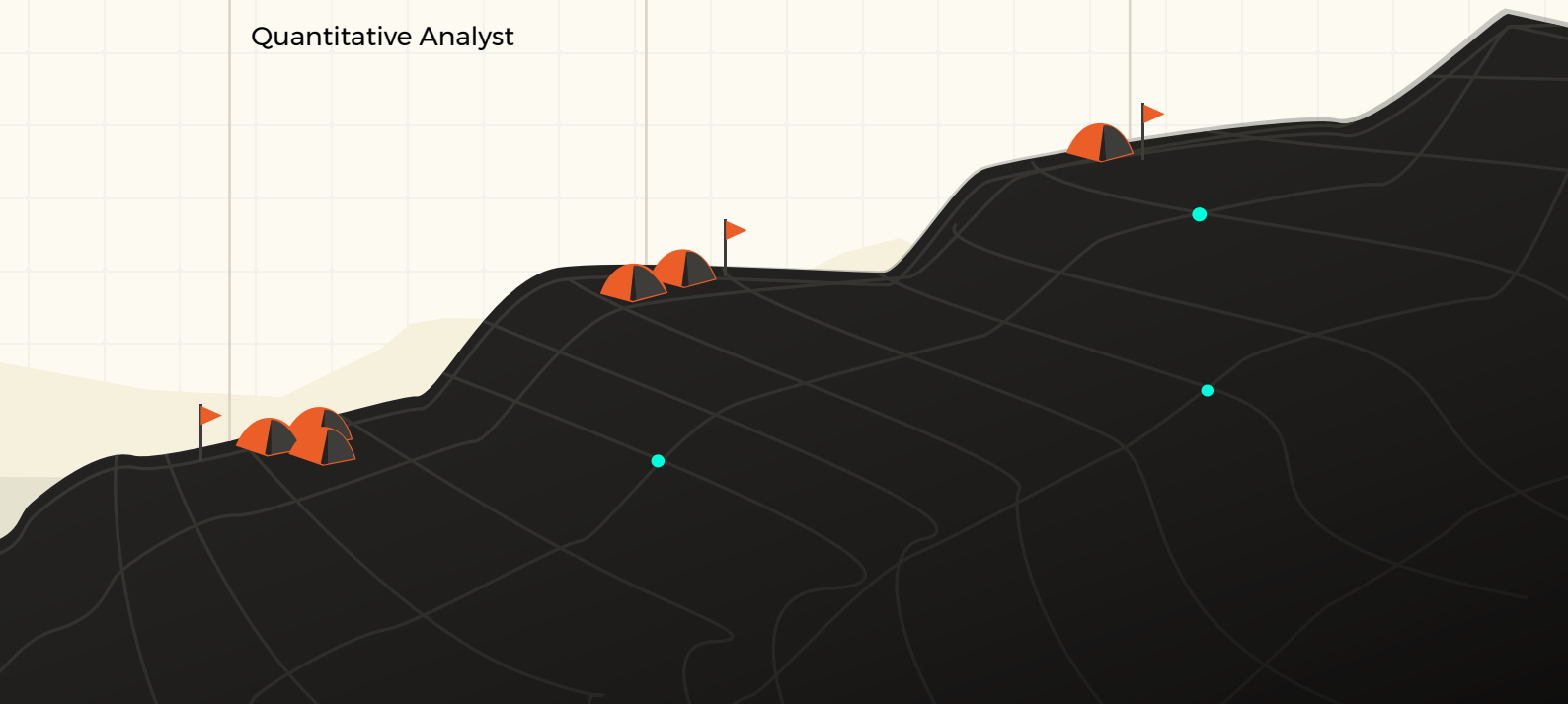
- ML Engineer
- ML Engineer
- ML Scientist
- ML Researcher
- Predictive Modeler
- Quantitative Analyst

📍 Deep Learning (DL) Based Roles

- Computer Vision Engineer
- Robotics Engineer
- Deep Learning Engineer
- Research Scientist (CV)
- Research Scientist (ML)
- Applied Scientist
- Data Scientist (focus on NLP)

📍 Generative AI (Gen AI) Based Roles

- AI Research Scientist (NLP)
- AI Research Scientist (ML)
- Chatbot Developer
- NLP Engineer
- AI Engineer/Researcher





Live Projects During Classes

Solving live business problems of companies like Target, Blinkit, Akamai, Cloudsek, Yulu, etc. will be part of every session.

Delivery Time Prediction

Learn how to apply advanced AI techniques to predict delivery times, enabling you to build efficient logistics systems for real-world applications.



Credit Card Fraud Detection

Master Deep Learning frameworks to develop fraud detection models, equipping you to create secure payment systems and protect financial transactions.



Video Streaming Recommendations

Explore recommendation systems and time-series analysis to design personalised streaming experiences that increase user engagement and retention.



Food Delivery Data Exploration

Gain expertise in data analysis and visualisation to uncover trends and optimise decision-making for the food delivery industry.





Case Studies You'll Work On

You'll take home case studies that will include challenges faced by top tech companies to work on.

**AI-Powered Fraud Detection:**

Use Machine Learning to block fraudulent transactions, ensuring security.

**Gen AI for Product**

Personalisation: Develop AI models for personalised shopping, boosting engagement and sales.

**Real-Time Network**

Optimisation: Optimise networks with AI to reduce junk traffic and delays.

**Text-to-Image Generative**

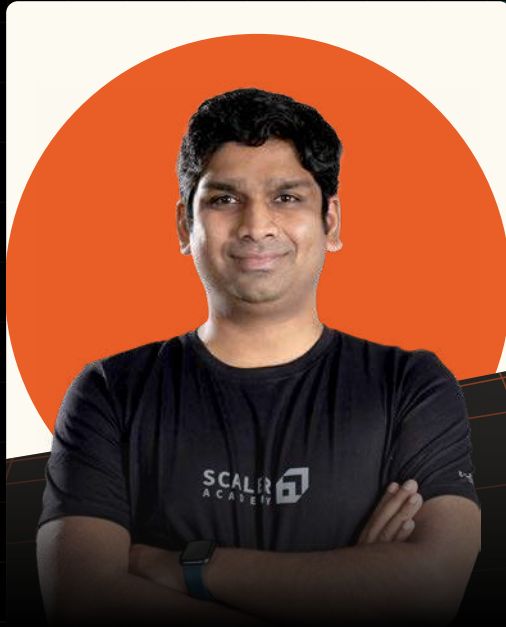
Models: Build AI systems to generate images from text, revolutionising creativity.



AI-Enhanced User Experiences: Design AI solutions for engaging apps and games, improving retention.



Curriculum Advisors




Srikanth Varma
Ex- 

- Senior ML Scientist, Amazon & Palo Alto
- Research Engineer, Yahoo! Labs
- Masters from IISc Bangalore, Gate 2007 (AIR 2)
- 13+ years of experience in AI and Machine Learning

Anshuman Singh
Co-founder, **SCALER** 

- Worked with Mark Zuckerberg and led the team that built FB Messenger
- Was responsible for setting up Facebook's office outside the US
- Represented India in the ICPC world finals twice



Abhimanyu Saxena
Co-founder, **SCALER** 

- Co-founder, InterviewBit
- Programmer, Progress Software
- Software Architect at one of the fastest-growing unicorns, Fab.com

Training You to Reach the Top



Pravendra Singh

Assistant Professor,



Ph.D. in CSE from IIT Kharagpur

19 articles published in renowned journals

10+ awards & grants from IITs, Google, Microsoft, ect



Shivank Agarwal

EX-  Microsoft

Senior V.P. Data Science & Head of AIML Program, Scaler

Ex-Microsoft

Ex-Inmobi

Ex-Oracle



4.8 star review
rating



7000+ learners
taught



14+ years
of experience



Naman Bhalla

Ex-  Google

Head of AI Companion, Scaler

Ex- Google

Secured Global Rank 135 in Google Kickstart Round D

ACM ICPC 2019-20 Kanpur Regionals Rank 37



4.8 star review
rating



13,000+ learners
taught



5+ years
of experience



Shape Your Own Journey

- Your Starting Point
- Mentors to Guide You
- Be Part of Our Community
- Others on the Same Path
- Scaler Placement Assistance





Your Starting Point

Entry to the batch is basis your performance in our entrance test.

Scaler Entrance Test (SET) will test your coding skills and aptitude for the program.

Who is this program right for?

-  **Profession:** SDEs, Data Analysts, Data Scientists or other tech roles
-  **Coding Experience:** 2+ years of experience in the industry
-  **Aim:** Looking to upskill & gain AI & ML skills or transition to AI/ML Engineer roles





Mentors to Guide You



Kunal Rathod
Data Scientist



With a career rooted in Data Science, he has worked in companies in domains like enterprise products, media, aviation, healthcare and consulting.



Sumedh Chandaluri
Sr. ML Engineer



He has over 5 years of experience in Data Science, Data Analytics, AI/ML, Statistics, Deployment and mentoring.



Abhishek Kumar
Sr. Manager
Data Science



He has over 6 years of experience developing models using Machine Learning/AI to achieve business outcomes.



Sajjad Manal
Applied Scientist



He uses his knowledge of Machine Learning to solve business problems at Microsoft and actively works on independent projects as well.





Be Part of Our Community

The best part of any learning ecosystem is your peer group and alumni, who can provide insights, guidance and advice even after you graduate from Scaler.



Be part of a network of 20k+ learners and alumni



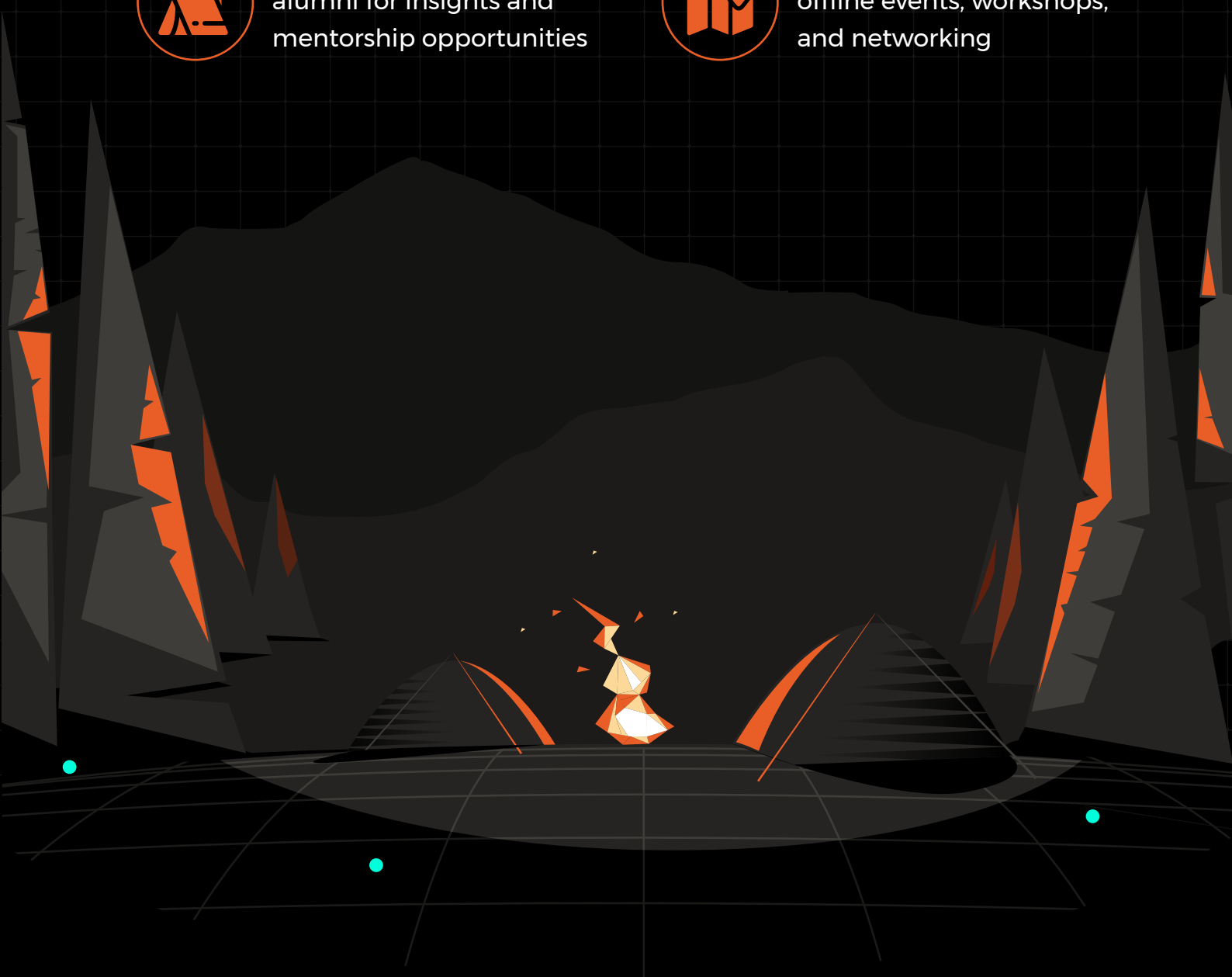
Learn collaboratively with your peers in a dynamic learning environment



Access a network of alumni for insights and mentorship opportunities



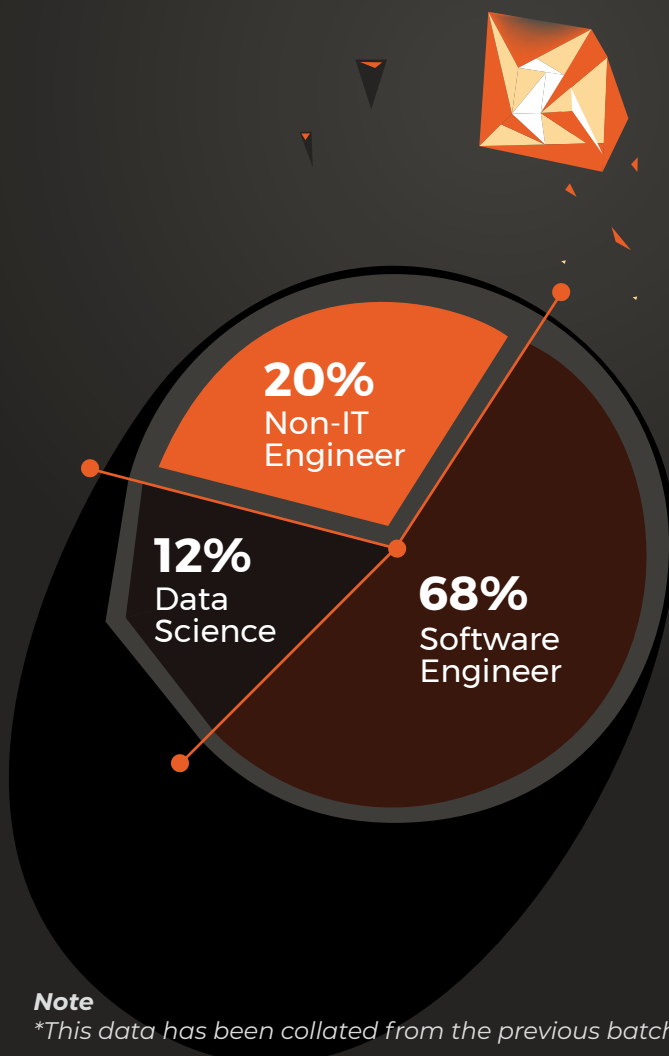
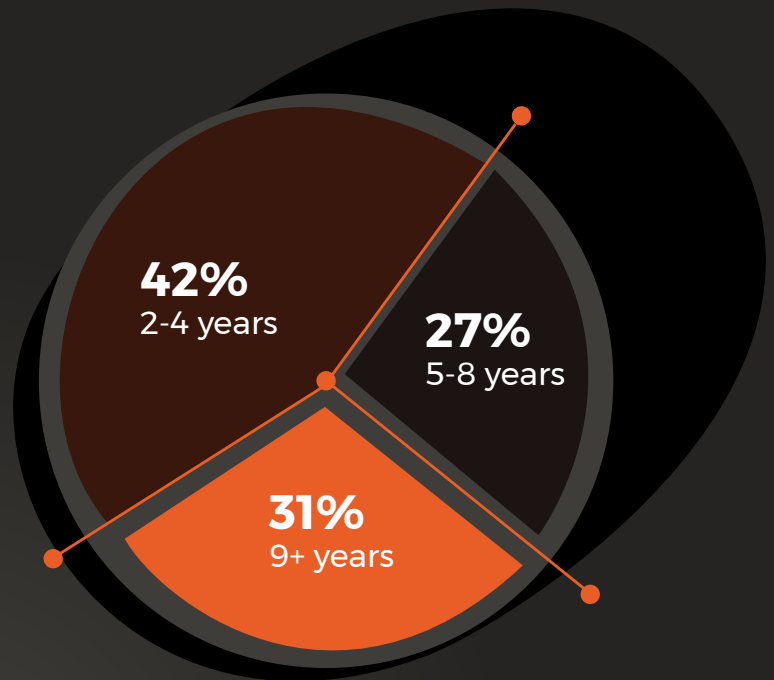
Join Scaler City Clubs for offline events, workshops, and networking





Others on the Same Path

**Our learners have
a wide range of
work experience
in tech**



**They also come
from different
tech backgrounds**

Note

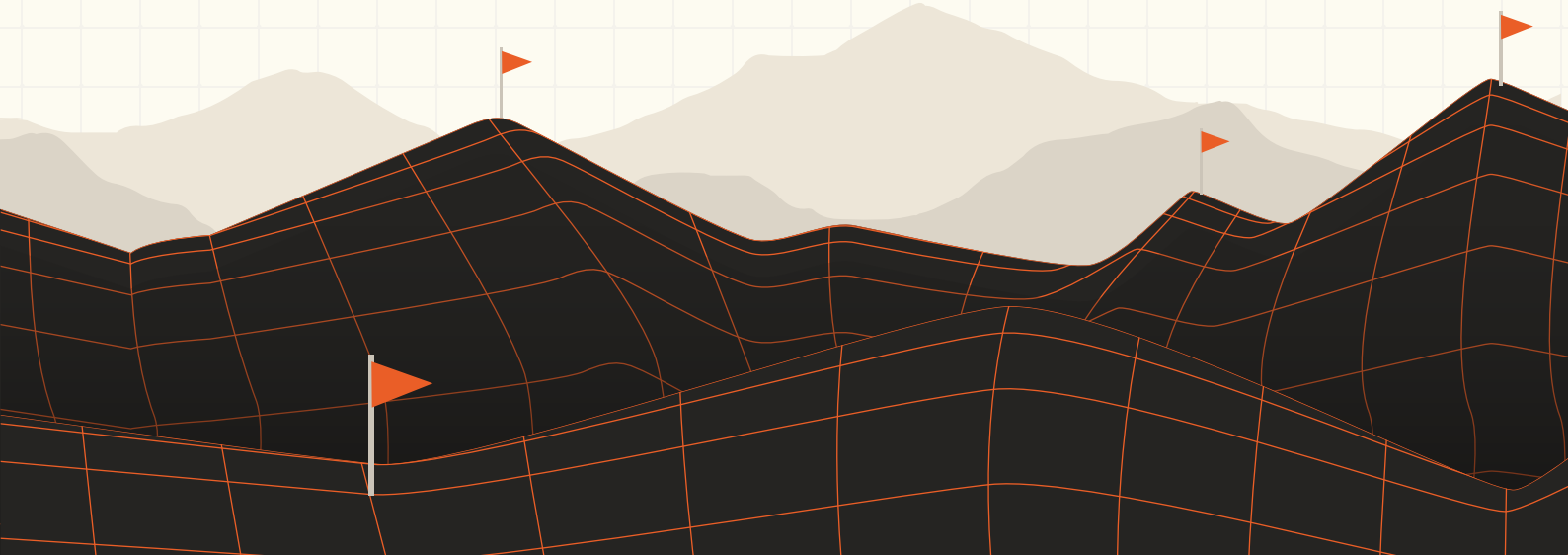
**This data has been collated from the previous batch of the Scaler Academy and DSML programs.*



Scaler Placement Assistance

With mock interviews and resume-building sessions, we'll prepare you to find jobs with our placement partners or give you the assistance and confidence needed to venture into the industry to find your dream job.

Our 900+ placement partners include





Why Scaler is Right for You

- About Scaler
- Ecosystem Designed for Learning
- The Scaler Track Record
- Transitions of Our Learners
- Hear From Our Learners





About Scaler

Transforming Careers Since 2019



15k+ satisfied learners



Top 1% industry instructors



89.5% success rate

Programs We Offer



Online

Academy (Software Development)
Data Science
DevOps
Neovarsity (Master's Degree)




Offline

Scaler School of Technology
Scaler School of Business

Backed by the Best in the Industry



Kunal Shah

Founder,  CRED



Deepinder Goel

Co-founder, 



Binny Bansal

Co-Founder, 



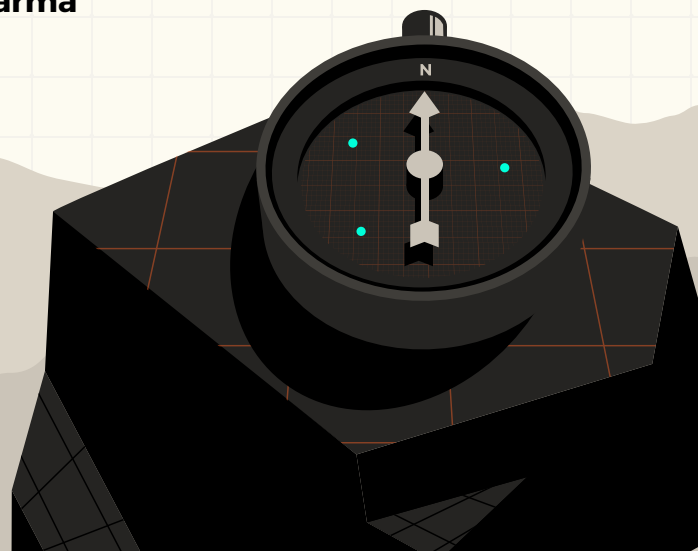
Rajan Anandan

MD,  peakxv



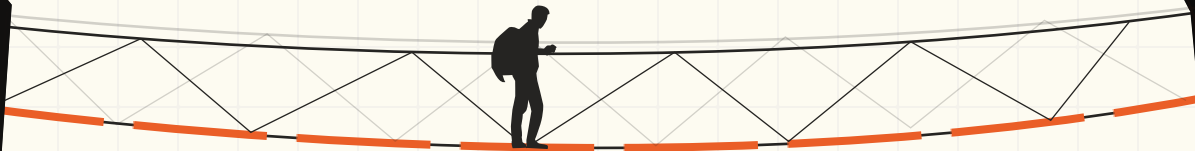
Vijay Shekhar Sharma

MD, 





Ecosystem Designed for Learning



• **Access to Class Recordings** for up to 6 months after course completion

• **Tests** will be conducted after every important module in your curriculum

• **Reset Course Option** to help you restart as and when you need it

• **Teaching Assistants** who will keep you on track to achieve your goals

• **Pause & Resume** from the nearest milestone and get credit back after resuming the course

• **Doubt-solving sessions** to work on your problems and learn from the mistakes of your peers

• **AI-enabled Resume Builder** to help you make it through resume screenings at top companies

• **AI-Powered Mock Interviews** to simulate real-world interview experiences



The Scaler Track Record

MEDIAN CTC

SCALER
ACADEMY

Overall

₹**25** LPA

Top 25%

48 LPA

Middle 80%

25 LPA

MEDIAN CTC

SCALER
DATA SCIENCE

Overall

₹**18** LPA

Top 25%

35 LPA

Middle 80%

18 LPA

SCALER ACADEMY

Hike in CTC%

150%

Median

SCALER DATA SCIENCE

Hike in CTC%

110%

Median

CAREER TRANSITION RATE

Scaler Academy

96%

Scaler Data Science

83%

Note

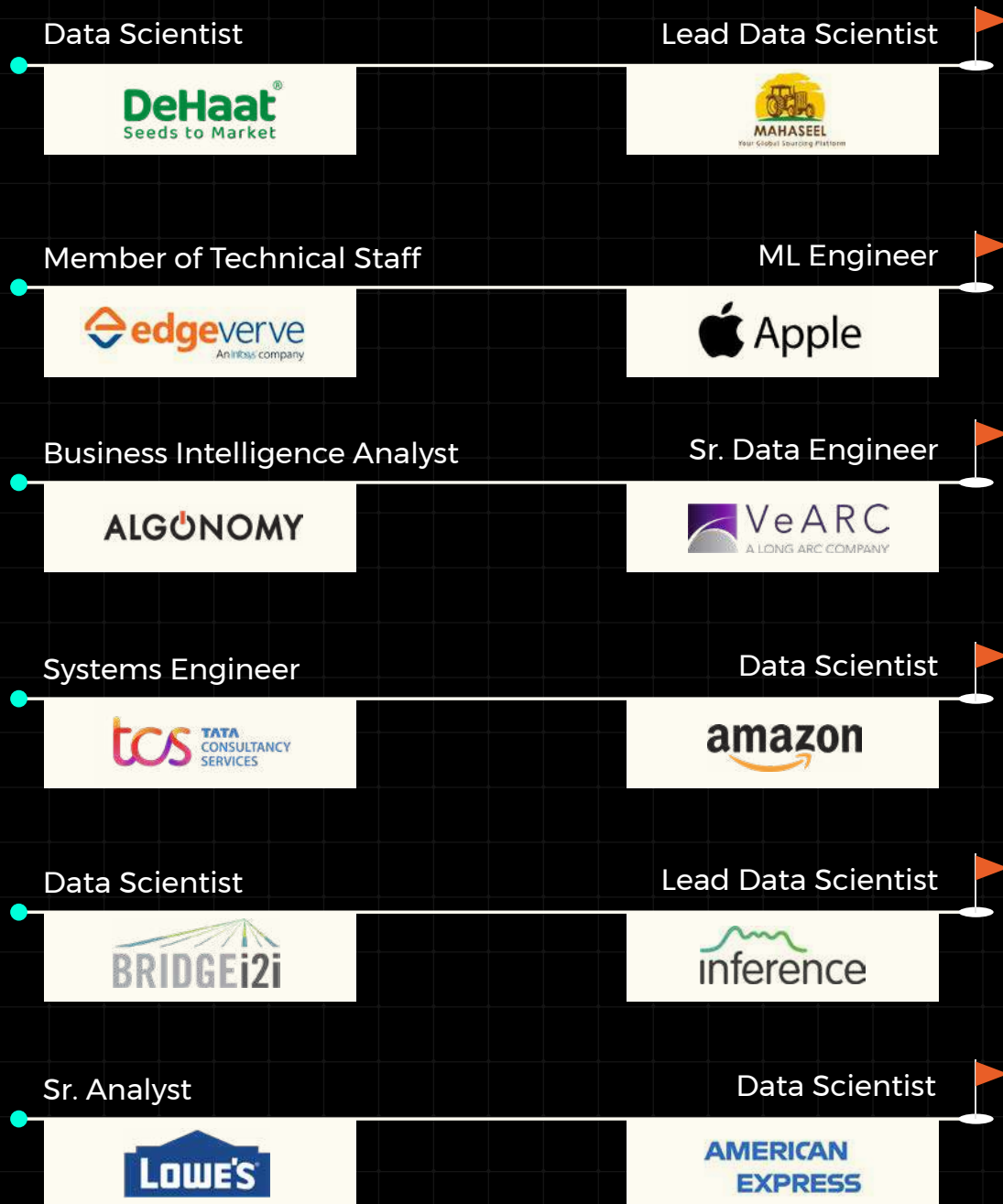
*This data is based on the placement records of learners from the Scaler DSML & Academy program.
-The data set includes learners who have completed their mandatory modules and have completed a period of 6 months post that, as of Jan 1, 2024.

-Past results do not guarantee future placements.

-The numbers represented here are aggregate numbers for the batch, and are in no way a guarantee of any future salary. Salaries are a function of skills, background, and market conditions.



Career Transition of Our Learners



Note

**This data is based on the placement records of learners from the Scaler DSML & Academy program.
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Hear From Our Learners



Avijit Swain



"It just feels like yesterday that I joined Scaler's Data Science and Machine Learning Program. I do not even remember how the past few months just flew by. The last 1 year at Scaler has literally altered the course of my life. From being completely directionless and hopeless to regaining my confidence, this has been an unbelievable turnaround for me."



Sunshodan Makkar



"I'd like to thank the Scaler team—great instructors like Mohit Uniyal and Scaler's teaching assistants made my transition into the DSML field very smooth. While Data Analytics wasn't my initial area of interest, attending classes and immersing myself in learning allowed me to discover a genuine interest and passion for it."



Mayank Khandelwal



"The best way to learn something is by diving straight into the deep end and broadening your horizons. For that, I would like to specifically thank Srikanth Varma Chekuri. Having an in-depth understanding of the various projects we can target—as a fresher or an experienced professional - was super exciting to learn about."



Bhaskar Shaw



"Consistently practising problems every single day for 200+ days definitely paid-off in the end, and I have Scaler to thank for supporting me in every way possible. They left no stone unturned, be it a fantastic curriculum, personalised mentorship or ample placement opportunities."



Ankit Pangasa
Google

"Working at Google is a dream for all techies, and Scaler helped me realise this dream. Their course structure is impeccable and has helped me widen my knowledge horizon beyond the basics. They have truly established that knowledge is not limited to the four walls of a classroom, and I am grateful for all that I have learned!"

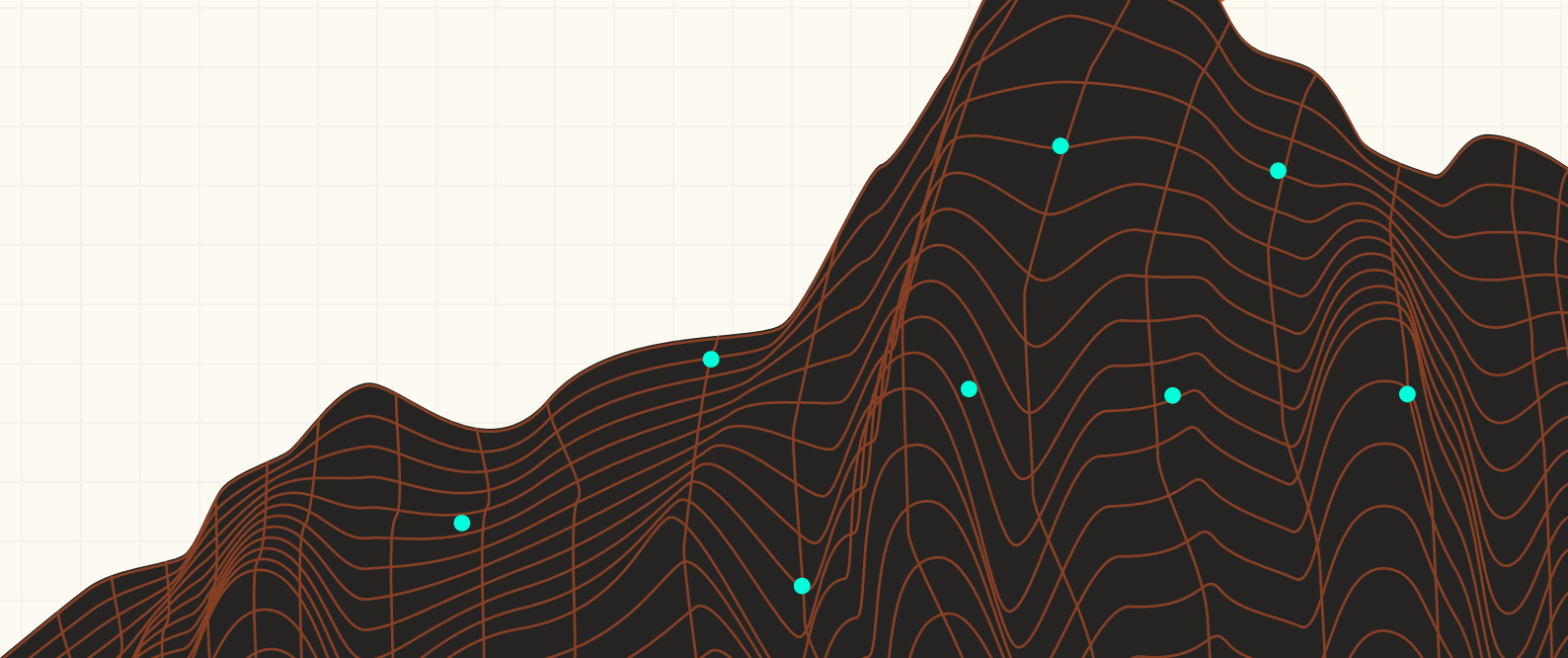


Abinay Bingumalla
ORACLE

"I initially joined Scaler to brush up on my fundamentals but got the whole grand package instead. And it was easily the best decision I could have made for myself! I got a much-needed skill boost and developed a focused and disciplined mindset that helped me pave my way towards companies like Microsoft and Oracle."

Want to know about other learners?

Hear More



Ready to Start Your AI & ML Journey?

[Apply Now](#)

