
	<p>Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering (PCCoE) (An Autonomous Institute) Affiliated to Savitribai Phule Pune University(SPPU) ISO 21001:2018 Certified by TUV SUD</p>	
FDP Report on Applied AI - Building Foundation for Enterprise AI		

Department: Computer Engg.(Regional Language)

Date: 16-12-25

Event: ISTE approved Faculty Development Program in collaboration with ATX Labs

Title: Applied AI - Building Foundation for Enterprise AI

Dates: 1st Dec 2025 – 6th Dec 2025

Time: 6:00 PM – 8:00 PM

Total participants: 64

Mode: Online (with Demo/Practical sessions)

Coordinators:Dr. Sujata Kolhe and Mrs. Minal Shahakar

Organizing Team Members: Mr. Ganesh Deshmukh, Mrs. Rucha Shinde, Mrs. Priyanka Gupta, Ms. Shalu Mahajan, Mrs. Varsha Pandagre

1. Introduction

The Faculty Development Program (FDP) on Applied AI - Building Foundation for Enterprise AI is designed to provide participants with a comprehensive understanding of Artificial Intelligence concepts and their practical applications. This one-week program offers a balanced blend of theoretical insights and hands-on sessions, enabling participants to explore AI-driven solutions for real-world problems. The sessions will cover essential topics such as Machine Learning, Deep Learning, Natural Language Processing and DataAnalytics, along with exposure to popular AI tools and frameworks like Python, TensorFlow and Scikit-learn. The FDP aims to empower faculty members to integrate AI methodologies into their curriculum, research and projects, thereby promoting innovative teaching practices and fostering industry oriented learning among students.

2.Objective of the Event

- **Build Foundational Understanding:**
To provide participants with a strong conceptual foundation in Applied Artificial Intelligence, including key terminologies, frameworks, and enterprise-ready technologies.
- **Develop Practical Skillsets:**
To equip attendees with hands-on insights into machine learning workflows, large language models, data pipelines, MLOps practices, and real-world AI implementation strategies.

- **Bridge Academia–Industry Knowledge:**
To connect theoretical AI concepts with practical enterprise applications through expert lectures, case studies, and emerging industry trends.
- **Promote Responsible and Ethical AI Adoption:**
To create awareness about responsible AI practices, governance, security, fairness, transparency, and ethical deployment of AI in organizational environments.
- **Encourage Innovation and Future Readiness:**
To inspire participants to explore next-generation AI opportunities, research domains, and innovation pathways relevant to enterprise transformation.
- **Facilitate Collaboration and Knowledge Exchange:**
To create a platform for interaction among faculty, researchers, industry professionals, and AI learners, fostering networking, dialogue, and future collaborations.

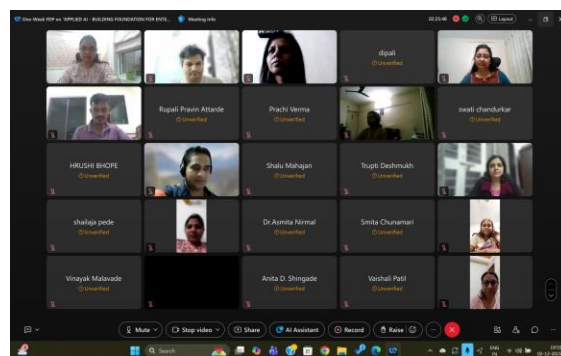
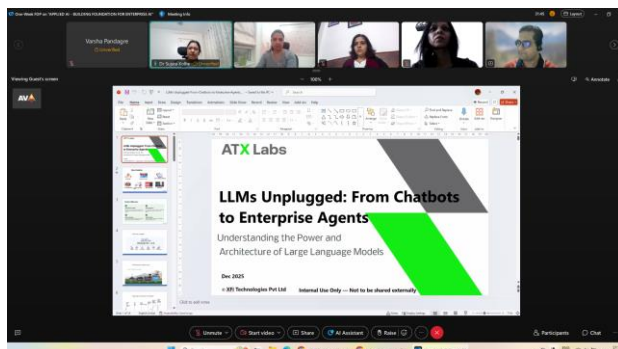
3. Expert Sessions

Here are some of the details of the FDP:

DAY 1

- Date :- 01/12/25 06:00 PM – 08:00 PM
- Topic: LLMs Unplugged: From Chatbots to Enterprise Agent
- Speaker:Mr.Nitin Kapse – Lead AI Solutions (ATX Labs)

The speaker highlighted how modern language models go beyond basic text generation to integrate tool use, retrieval-augmented generation (RAG), and workflow orchestration for real-world business applications. Examples demonstrated how LLMs can automate enterprise functions such as customer support, document processing, knowledge retrieval, compliance checking, and multimodal interaction.



DAY 2 (Session 1)

- Date :- 02/12/25 06:00 PM – 07:00 PM
- Topic:ML Pipeline

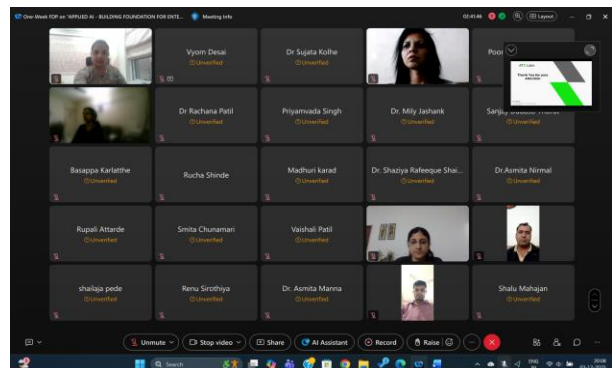
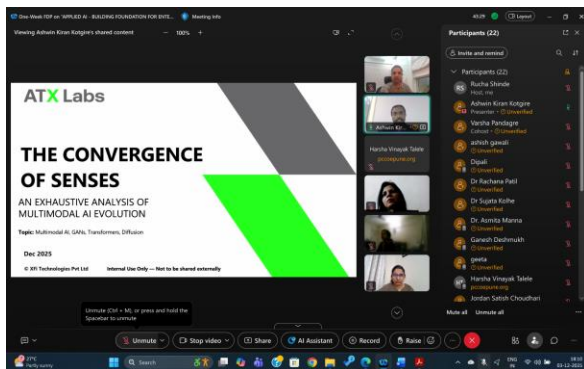
- **Speaker:Mr.Suraj Singh – Lead AI Engg (ATX Labs)**

The speaker highlighted the critical role of the Machine Learning Pipeline in transforming raw data into reliable, deployable, and scalable AI solutions. The session introduced a step-by-step workflow beginning with data collection, cleansing, and preprocessing, followed by feature engineering and model selection based on problem type and business objectives. Hands-on examples demonstrated how training, validation, and hyperparameter tuning contribute to improving model accuracy and generalization.

DAY 2 (Session 2)

- **Date :- 02/12/25 07:00 PM – 08:00 PM**
- **Topic:AI at Scale: Smarter, Faster, Cheaper**
- **Speaker: Mr.Suraj Singh – Lead AI Engg (ATX Labs)**

The speaker highlighted how AI at Scale: Smarter, Faster, Cheaper enables organizations to operationalize artificial intelligence in a way that drives efficiency, accelerates innovation, and optimizes cost. The session emphasized that scaling AI requires more than just advanced models—it demands streamlined data pipelines, distributed computing environments, and automation across the deployment lifecycle.



DAY 3 (Session 1)

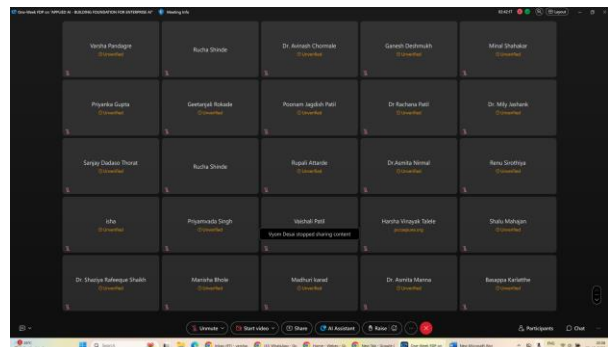
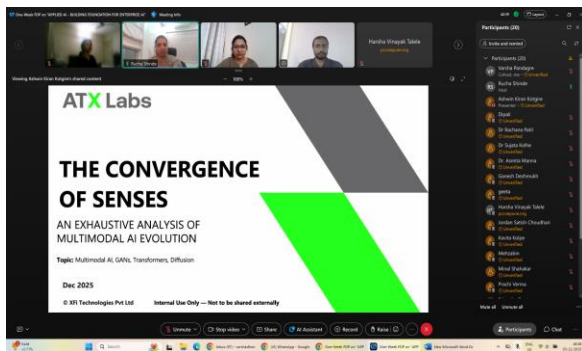
- **Date :- 03/12/25 07:00 PM – 08:00 PM**
- **Topic:Multimodal Intelligence: Beyond Text to Vision, Speech & More**
- **Speaker: Mr.Ashwin Kotgire - Sr AI Engg (ATX Labs)**

The speaker highlighted how Beyond Text to Vision, Speech & More demonstrates the evolution of AI from text-only systems to multimodal intelligence capable of processing and generating diverse forms of information. The session explored how modern AI models can handle images, interpret speech, analyze video, and integrate real-world sensor data to create richer and more intuitive user experiences.

DAY 3 (Session 2)

- **Date :- 03/12/25 07:00 PM – 08:00 PM**
- **Topic:Enterprise AI in Action: Case Studies & Industry Trends**
- **Speaker: Mr.Vyom Desai - Sr Agentic AI Engg (ATX Labs)**

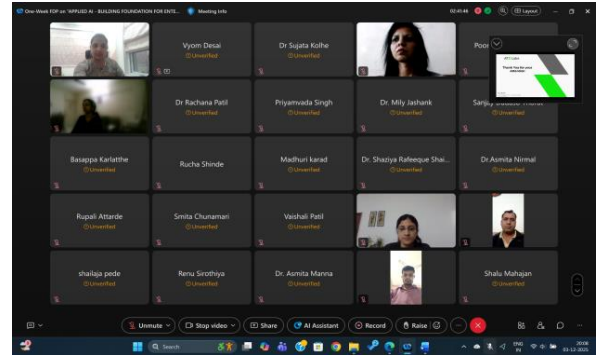
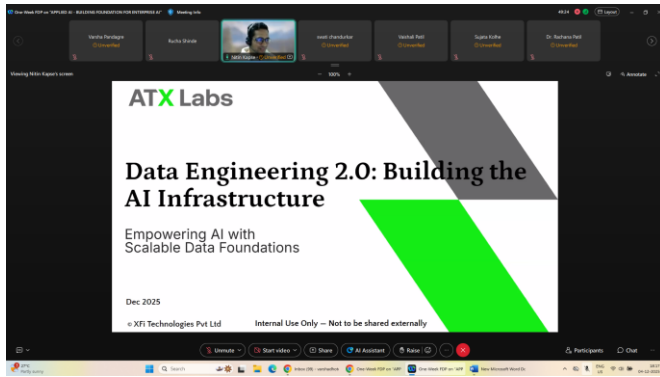
The speaker highlighted how Enterprise AI in Action: Case Studies & Industry Trends showcased the practical adoption of AI across multiple sectors to streamline operations, enhance decision-making, and drive scalable digital transformation. The session presented real-world case studies illustrating AI applications in finance, manufacturing, healthcare, retail, and customer service, including use cases such as fraud detection, predictive maintenance, personalized recommendations, and automated support agents.



DAY 4

- **Date :- 04/12/25 06:00 PM – 08:00 PM**
- **Topic: Data Engineering 2.0: Building the AI Infrastructure**
- **Speaker:Mr.Nitin Kapse - Lead AI Solutions (ATX Labs)**

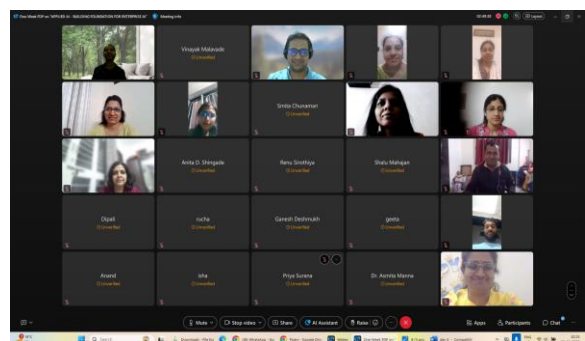
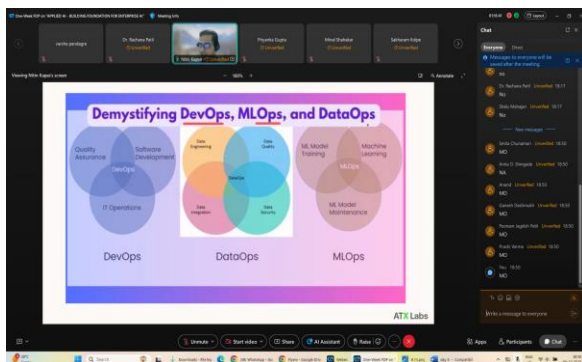
The speaker highlighted how Data Engineering 2.0: Building the AI Infrastructure focuses on next-generation data systems designed to support scalable and intelligent AI-driven workloads. The session emphasized that modern data engineering goes beyond traditional ETL processes, incorporating real-time streaming, vector databases, feature stores, and unified data platforms optimized for machine learning and generative AI. The speaker explained how cloud-native architectures, data lakes, and lakehouse systems enable seamless storage, processing, and access to large volumes of structured and unstructured data.



DAY 5

- **Date :- 05/12/25 06:00 PM – 08:00 PM**
- **Topic: MLOps & LLMops: Putting AI Into Production**
- **Speaker:Mr.Nitin Kapse - Lead AI Solutions (ATX Labs)**

The speaker highlighted how MLOps & LLMops: Putting AI Into Production addressed the essential transition from experimentation to operationalizing AI systems at scale. The session emphasized that MLOps provides end-to-end lifecycle management for machine learning models, covering development, testing, deployment, monitoring, and continuous improvement. With the emergence of large language models, the discussion expanded to LLMops, focusing on specialized workflows such as prompt engineering, fine-tuning, retrieval-augmented generation (RAG), inference optimization, and safeguard implementation.



DAY 6 (Session 1)

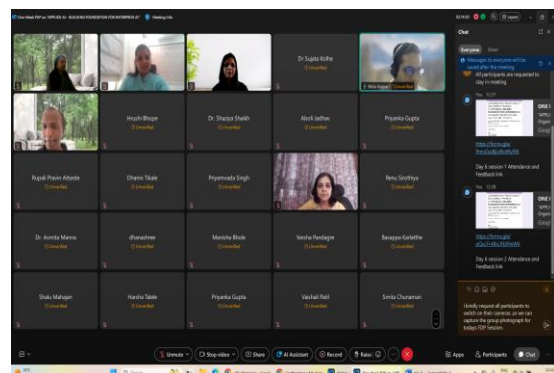
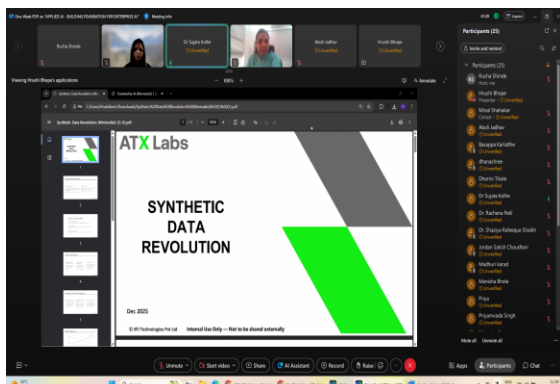
- **Date :- 06/12/25 11:00 AM – 12:00 AM**
- **Topic: Trustworthy AI: Security, Privacy & Governance**
- **Speaker:Mr.Hrushu Bhope – Data Scientist (ATX Labs)**

The speaker highlighted the growing importance of Trustworthy AI, emphasizing that as AI adoption accelerates, maintaining security, privacy, and strong governance becomes essential. The session explored how responsible AI systems must be transparent, auditable, and aligned with regulatory frameworks to prevent misuse and ensure ethical deployment. Key discussions covered privacy-preserving techniques such as differential privacy, federated learning, and encrypted computation to protect sensitive enterprise and user data.

DAY 6 (Session 2)

- **Date :- 06/12/25 12:00 PM – 1:00 PM**
- **Topic: Synthetic Data Revolution: When Real Data Isn't Enough**
- **Speaker:Mr.Hrushu Bhope – Data Scientist (ATX Labs)**

The speaker highlighted how Synthetic Data Revolution: When Real Data Isn't Enough explored the growing importance of synthetic data in overcoming limitations of real-world datasets. The session emphasized that generative models, such as GANs and diffusion models, can create high-quality synthetic data to supplement scarce, incomplete, or sensitive datasets. The speaker discussed applications in healthcare, finance, and other regulated industries, where synthetic data helps preserve privacy, ensure compliance, and enable safe AI experimentation.



6. Conclusion

The FDP on “**LLMs Unplugged: From Chatbots to Enterprise Agents**” provided participants with a comprehensive understanding of the latest advancements in artificial intelligence, machine learning, and enterprise AI applications. Across multiple expert-led sessions, attendees explored a wide range of topics—from foundational concepts such as ML pipelines and data engineering to advanced applications including MLOps/LLMOps, multimodal intelligence, AI at scale, and synthetic data generation.

Key Outcomes

1. **Enhanced Understanding of LLMs and Enterprise AI:** Participants gained insights into large language models, multimodal AI systems, and their applications in enterprise environments.
2. **Hands-on Knowledge of ML Pipelines and MLOps/LLMOps:** Attendees learned best practices for model development, deployment, monitoring, and continuous improvement.
3. **Exposure to AI at Scale:** Participants understood strategies to make AI systems faster, smarter, and cost-efficient while maintaining reliability.
4. **Awareness of Trustworthy AI Practices:** The FDP highlighted the importance of privacy, security, governance, and ethical deployment in AI projects.
5. **Practical Applications through Case Studies:** Real-world examples demonstrated AI’s role in finance, healthcare, retail, and other industries, showing measurable business impact.
6. **Introduction to Synthetic Data and Data Engineering 2.0:** Participants explored advanced data infrastructure and synthetic data techniques for handling scarce or sensitive datasets.
7. **Actionable Insights for Future AI Projects:** The FDP equipped participants with frameworks and strategies to implement AI responsibly and effectively in enterprise contexts.

Overall, the FDP successfully bridged theoretical knowledge with practical insights, empowering participants to leverage AI technologies confidently and responsibly in their respective domains.

Program Flyer:





Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering
 Department of Computer Engineering
 Regional Language
 Faculty Development program
"APPLIED AI- BUILDING FOUNDATION FOR ENTERPRISE AI"

Ashish Gawali
Tech Entrepreneur - Building ATX Labs Es Founder & CEO IOPhysics Systems (acquired by Turtlemint).




Nitin Kapse
Data Engineering Consultant | AI Engineer | IT Career Mentor

Vyom Desai
Senior Engineer at ATX Labs




Suraj Singh
Head of AI Engineering @ ATX Labs | Former ML Engineer at Turtlemint | Former SDE - Oplus RnD | Former RnD Intern at Ubisoft |

Ashwin Kotgire
Agentic AI Lead at ATX Labs | Transforming Complex Data into Actionable Solutions |




Hrushi Bhope
Data Scientist, Working at ATX Labs

Time: 6:00 PM – 8:00 PM
 Dates: 1st Dec 2025 – 8th Dec 2025
 Mode: Online through webex platform

Inauguration Session

One-Week FDP on "APPLIED AI - BUILDING FOUNDATION FOR ENTERPRISE AI" Meeting Info

Vansha Pandgare
 1. Pooja Shinde

Viewing Minal Shahakar's applications

Presentation 1 - Presentation 1
 100%

File Home Insert Draw Design Transitions Animations Slide Show Record Review View Help Acrobat

Remove Background
 Color
 Artistic Effects
 Adjust

Picture Border
 Picture Effects
 Selection Pane
 Arrange

Bring Forward
 Send Backward
 Selection Pane
 Arrange

Ashish Gawali
 Tech Entrepreneur - Building ATX Labs Es Founder & CEO IOPhysics Systems (acquired by Turtlemint).

Nitin Kapse
 Data Engineering Consultant | AI Engineer | IT Career Mentor

Vyom Desai
 Senior Engineer at ATX Labs

Suraj Singh
 Head of AI Engineering @ ATX Labs | Former ML Engineer at Turtlemint | Former SDE - Oplus RnD | Former RnD Intern at Ubisoft |

Ashwin Kotgire
 Agentic AI Lead at ATX Labs | Transforming Complex Data into Actionable Solutions |

Hrushi Bhope
 Data Scientist, Working at ATX Labs

Register Here!
Time: 6:00 PM – 8:00 PM
 Dates: 1st Dec 2025 – 8th Dec 2025
 Mode: Online through webex platform

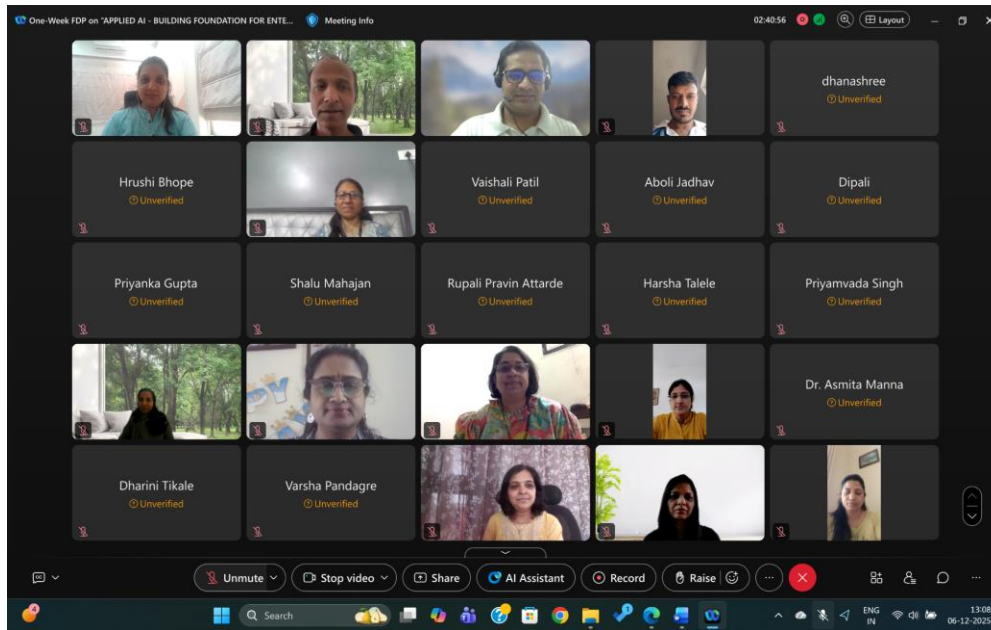
Click to add notes

Unmute Start video Share AI Assistant Raise

Participants (38)

- Madhuri Suryawanshi
- Mehzabin
- Prachi Verma
- Pooja Bagal
- Priya Sorans
- Priyamvada Singh
- Priyanka Gupta
- Rupali Attarde
- Saksharam Kolpe
- Sanjay Dadasa Thorat
- Shalu Mahajan
- Ashweta devede
- Smita Chunanmani
- suhans Deokate
- Supriya Vishwanav
- suryakata A V
- Trupti Dashmukh

Valedictory Session



Assessment Link: <https://forms.gle/a41iVxyyfP24Liw2A>

Dr.Sujata Kolhe
Mrs.Minal Shahakar
Coordinators

Dr. Rachana Y. Patil
Head of the Department & Convener