

Online Workshop
on
Applying AI in Software Development Life Cycle

Timings: 4:00 p.m to 6:00 p.m

Target Audience: ACTS Students of C-DAC

Each Session: Duration of each session includes Q&A

Dates	Title	Focus Areas	Resource Person	Duration	Timings
20 th Nov 2025	Opening Remarks		Dr. P R Lakshmi Eswari, Scientist G and Centre Head, C-DAC, Hyderabad	20 mins	4:10 p.m to 4:30 p.m
	Introduction to AI in Software Development Life Cycle	Overview of AI's role in design, development, and testing processes (Entire SDLC)	Shri Mahesh Patil, Scientist G, C-DAC Hyderabad, maheshp@cdac.in	20 mins	4:30 p.m to 4.50 p.m
	Prompt Engineering	Designing, analyzing, and refining the inputs (or "prompts") used to elicit responses from GenAI for various tasks such as code completion, Q & A, and automatic testing.	Mr. Yogender Kumar Knowledge Associate, yogenderk@cdac.in Ph: +91-8005841259 C-DAC Bangalore	60 mins	4:50 p.m to 5:50 p.m
27 th Nov 2025	AI for Requirement Analysis and Design and AI-Powered Prototyping	Automated requirement analysis, UML modeling, architectural design. Using AI to generate prototypes and mockups from descriptions	Mr. Abhishek Thakur, Knowledge Associate athakur@cdac.in +91 9735950486	40 mins	4:00 p.m to 4:40 p.m

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	AI-Assisted Coding	Code completion, bug fixing, and suggestions.	Ms. Jayeeta Choudhury, Project Engineer, jayeetac@cdac.in Ph: +91-8971325089 C-DAC Bangalore	40 mins	4:40 p.m to 5:20 p.m
	AI for Automated Testing	Generating test cases, regression testing, and automating test execution	Mr. Hemanth K, Knowledge Associate, khemanth@cdac.in , Ph: +91-9346088293 C-DAC Bangalore	40 mins	5.20 p.m to 6:00 p.m
4 th Dec 2025	Case Study	All Phases of SDLC	Sadhu Srinivas, Scientist E, sadhur@cdac.in , Ph: 9848252498 C-DAC, Hyderabad	40 mins	4:00 p.m to 4:40 p.m
	AI in Debugging and Code Security	Debugging assistance, vulnerability scanning, and static code analysis	Shoubhik Das, Project Engineer, C-DAC Hyderabad, shoubhikd@cdac.in Ph: 9049608396	40 mins	4:40 p.m to 5:20 p.m
	Ethical use of AI	Bias and Fairness Governance and Regulations by Indian Govt. Privacy and Data Protection Accountability matrix Ensuring inclusivity	Moulik Dayal Project Engineer, moulikd@cdac.in , Ph: +91-9560813210 C-DAC Pune	40 mins	5.20 p.m to 6:00 p.m

		Autonomous systems and safety Unethical use of AI in software applications Introduction to Ethical AI Tools/ services Community building and team activity (if time permits)			
11 th Dec 2025	AI assisted Documentation	Introduction to AI assisted documentation and how it is different from traditional documentation, Types of documentation in SDLC, Integration of Doxygen with IDEs/ other platforms, AI for Visual Content and Design - Generating diagrams, flowcharts, or infographics using AI tools, automating layout/ formatting Ensuring inclusivity/ readability, Plagiarism checks and respecting IPR, Challenges and limitations, Best practices	Atharva Kulkarni, Project Engineer, atharvak@cdac.in , Ph: +91-8554918262 C-DAC Pune	40 mins	4:00 p.m to 4:40 p.m
	AI for Performance Optimization	Identifying bottlenecks and improving software performance	Mr Someshwar Baburao Undare, Project Engineer, C-DAC Hyderabad someshwarb@cdac.in Ph No: 8856911700	40 mins	4:40 p.m to 5:20 p.m
	AI in Deployment and CI/CD Pipelines	Automating builds, deployments, and configuration management	Anand Kore Project Engineer, akore@cdac.in , Ph: +91-9881203872 C-DAC Pune	40 mins	5.20 p.m to 6:00 p.m
	AI for Monitoring	Observability, log analysis, and incident response	Anand Kore	40 mins	4:00 p.m to 4:40 p.m

18 th Dec 2025	and Maintenance		Project Engineer, akore@cdac.in , Ph: +91-9881203872 C-DAC Pune		
	Agentic AI	Redefining digital labor through autonomous, goal-driven systems	Sadhu Srinivas, Scientist E, sadhur@cdac.in , Ph: 9848252498 C-DAC, Hyderabad	40 mins	4:40 p.m to 5:20 p.m