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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Event name   : Agentic AI Projects

Date of Event   : 11th August, 2025

Venue   : Alpha-Delta Seminar Hall, KSSEM

Number of participants : 128

Targeted Audience   : VII Semester, Dept of AI&DS.

Objective   : To provide students with practical skills in agentic AI, including agent development on the HAWCC platform, use of different agent patterns, and mapping real-world use cases into effective agent designs.

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The Department of **Artificial Intelligence and Data Science** organized a workshop on **"Agentic AI Projects"** for **5th and 7th semester** students, focusing on building a clear understanding of agentic AI, its distinction from generative AI, and the practical skills required to design and implement agents for real-world applications.

Workshop Objective:

- Explain agentic fundamentals: what agents are, how agentic frameworks structure task management and handoffs, and how this differs from single-shot generative AI.
- Compare agent types and patterns: sequential agents for stepwise workflows, parallel research agents for breadth and speed, and loop agents for iterative refinement.
- Set up a working development environment and build the first agents using ADK: initialize a project, configure tools, and run/debug agents end-to-end.
- Implement hands-on agents on the HAWCC platform with ADK:
  a. Code pipeline agent for code generation, review, and iterative improvement.
  b. Parallel research agent for multi-source search, synthesis, and summarization.
  c. Document improver agent for editing, fact-checking, and structured feedback loops.
- Add and wire tools: create custom Python functions as tools, connect built-in search/data tools, and integrate third-party frameworks where relevant.
- Evaluate and iterate run test scenarios, capture failures, refine prompts/tools, and apply simple evaluation datasets/criteria to improve agents systematically.
- Identify and prioritize use cases: map business or project needs to agent capabilities, estimate value, and outline next steps for adoption.

Resource Person:

Shashank Shankar is the co-founder and chief mentor at Hebbale Academy, where he leads hands-on programs in agentic AI using the HAWCC platform. He previously held senior technology roles, including vice president at Barclays and system architect at Oracle Financial Services Software, and has advised engineering teams at YellowTin. He regularly delivers industry sessions on AI and practical agent development for academic and professional audiences.

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- At Hebbale Academy, he designs and facilitates applied learning tracks focused on agentic AI patterns, multi-agent orchestration, and tool-enabled workflows, guiding participants from fundamentals to deployable prototypes.
- His sessions emphasize end-to-end delivery—covering problem scoping, agent architecture, tool integration, evaluation, and iteration—so learners leave with working agents and a clear path to production-readiness.
- As an advisor, he supports engineering teams on productization strategies, platform design, and capability roadmaps for agentic AI, accelerating adoption through structured pilots and measurable outcomes.

Feedback:

The workshop was well-received by the students. Attendees shared that the sessions provided a strong foundation on agentic AI and its practical applications. The hands-on projects using the HAWCC platform made the learning highly engaging, while the mentor's guidance on evaluation and iteration added great value to their understanding.

Glimpses of Workshop:

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