MVJ COLLEGE OF ENGINEERING
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One Day Workshop on "AI tools & Usage"

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Report on Workshop on "AI tools & Usage"

MVJ College of Engineering, Bangalore, in association with Internal Quality Assurance Cell - IQAC, organized a one day workshop on **'AI Tools & Usage,** on 24th February 2024, from 10:00 am to 4:00 pm, to promote the AI tools usage in Teaching – learning process.79 faculty members participated in this workshop.

The inaugural function was graced by the honorable Chief Guest **Dr. Viraj Kumar, (Visiting Professor. Divecha Centre for Climate Change, IISc. Member, BoG, MVJCE),** in the presence of Dr. V. Suresh Babu (Principal, MVJCE) & Dr. M. Brindha (Vice-Principal, MVJCE), Dr. Shrinivas L. Gombi, Dean –academics, Dr. A C Niranjanappa, Dean – Research.

The event began with a prayer song.

Ms. Aishwarya Anand, 2nd Year, Dept of AE, singing invocation song

Dr. V. Suresh Babu - Principal, of MVJ College of Engineering, welcomed the dignitaries, faculty members, staff and students to the workshop.

Dr. SureshBabu.V – Principal - MVJ College of Engineering, addressing the gathering

Ms. Vishaka Kaypa, Final year student of Data Science presented the detailed profile of the chief guest

Ms. Vishaka Kaypa, Final year student of Data Science presenting the detailed profile of the chief guest

Principal, MVJ College of Engineering, Bangalore welcoming the chief guest with a bouquet

The Guest Speaker profile

Dr. Viraj Kumar has played a stellar role in the framing of the National Education Policy 2020, in his capacity as a member of the Technical Secretariat to the Kasturirangan Committee which drafted NEP 2020. Besides, he is a Senior Consultant in the Technical Secretariat to the Steering Committee drafting the National Curricular Framework. He is an Adjunct Professor at the National Institute of Advanced Studies. His contribution to the undergraduate programme at IISc. is noteworthy.

After completing his PhD in Computer Science from the University of Illinois at Urbana-Champaign, Dr. Kumar taught Computer Science for several years at both a liberal arts college and a premier research university in the US. After returning to India, Dr. Kumar's primary research focus has been in Computer Science Education.

Dr. Viraj Kumar is an elected member of the ACM India Council where he chairs the prestigious Education Committee. He has contributed to two Task Groups of the Karnataka Knowledge Commission.

The chief guest delivering the lecture on AI Tools

The forenoon session covered the following topics:

1. **Motivation of the session**
2. **2 skills of AI**
3. **What AI tools should I use?**
4. **Discussion: Is it ok to use "free" tools?**
5. **The most critical prompt**
6. **From reality to core**
7. **Representing real no's & floating no's**
8. **Integer operations**
9. **Comparison operators**
10. **A key concept: Assignment**
11. **Box Analogy & Suitcase label analogy**
12. **Breaking complex computations into steps**
13. **An externally helpful concept: functions**
14. **Technical prompting for functions**
15. **Testing functions**

The chief guest delivering the key skill sets of AI

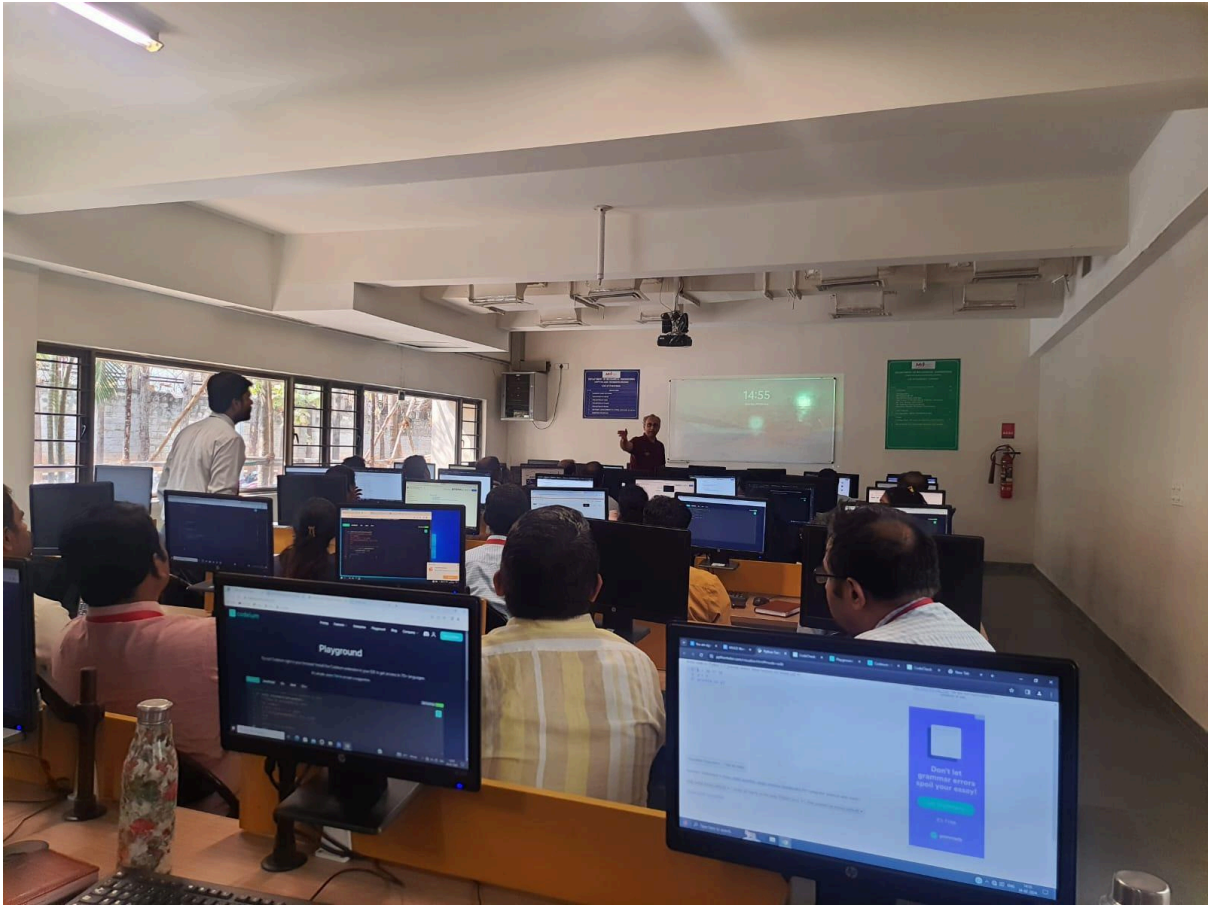The afternoon session was a hands-on session on AI tools & usage, which was demonstrated in CADE lab no: 024.

The hands on session cover the various concepts of AI.

The afternoon session covered the following topics:

- Box analogy
- Suitcase-label analogy
- Codeium Playground

Hands-on problems

1. Integers in C are strange.
2. Fix this buggy code to create an identity matrix.
3. Use AI to write a function that checks if a polynomial is valid.

Prof. Niranjan, HOD- Maths- clarifying his doubts during the hands-on session

At the end of the session, the queries of participants were addressed by the Speaker.

Finally, the participants were asked to share their experience of the session. They gave a good feedback and said that the session was informative as well as interesting. Faculty members are interested to make us of these AI tools in teaching-learning process.

Outcome of the Event:

The faculty members gained knowledge on the following topics:

1. Basic Free AI tools
2. How to use these AI tools effectively in teaching learning process
3. Understood how AI algorithms can analyze large data quickly