



A Seminar on DeepSeek Al Dr. K P Adhiya Computer Engg.

Activity Report

Academic Year	2024-25
Program Driven by	
Quarter	III
Program / Activity Name	Capacity Building Program
Program Type	
Program Theme	Innovation and startups
Start Date	15-03-2025
End Date	15-03-2025
Duration of the Activity (in Mins)	60
Number of Student Participant	0
Number of Faculty Participant	70
Number of external Participant	
Expenditure Amount in Rs.	
Any Remark	
Mode of Session Delivery	Offline
Objective	
Benefit in terms of Learning / Skills /	
Knowledge obtained	
Feedback	
Video url (mp4)	
Photograph 1 (jpg)	Attached
Photograph 2 (jpg)	Attached
Overall report of the Activity (pdf)	As given below

Dr. P. H. Zope Convener IIC







Presented by: Dr. K P Adhiya **Department:** Computer Engineering

Institution: [SSBT COET Bambhori Jalgaon]

Date: [15-03-25]

1. Introduction

DeepSeek AI is a Chinese artificial intelligence company that has rapidly gained global recognition for its innovative and cost-effective AI models. Founded in July 2023 by Liang Wenfeng, the CEO of High-Flyer, a quantitative hedge fund based in Hangzhou, China, DeepSeek emerged from an AI research unit under High-Flyer AI established in 2019. The company has since developed high-performance AI models, such as DeepSeek-V3 and DeepSeek-R1, which have surpassed ChatGPT in app downloads and challenged the dominance of U.S.-based AI giants like OpenAI, Meta, and Google. Dhyeya IAS+1Wikipedia+1

2. DeepSeek AI Models

2.1 DeepSeek-V3

DeepSeek-V3 is a Mixture-of-Experts (MoE) language model with 671 billion total parameters, activating 37 billion parameters per token. It incorporates Multi-head Latent Attention (MLA) and DeepSeekMoE architectures, which were validated in DeepSeek-V2. The model was pre-trained on 14.8 trillion diverse and high-quality tokens, followed by Supervised Fine-Tuning and Reinforcement Learning stages. Comprehensive evaluations revealed that DeepSeek-V3 outperforms other open-source models and achieves performance comparable to leading closed-source models. Despite its excellent performance, DeepSeek-V3 required only 2.788 million H800 GPU hours for its full training. Dhyeya LAS+2arXiv+2Wikipedia+2

2.2 DeepSeek-R1

DeepSeek-R1 is an affordable yet powerful model designed to compete in areas like mathematics, coding, and general knowledge. It challenges the need for expensive AI systems by offering high performance at a fraction of the cost. DeepSeek-R1 utilizes NVIDIA H800 GPUs and optimized training techniques, such as Auxiliary-Loss-Free Load





Balancing, to reduce hardware expenses and maintain efficiency without sacrificing quality. Wikipedia+2Dhyeya IAS+2arXiv+2

3. Cost-Effective AI Development

DeepSeek has achieved significant cost reductions in AI development through innovative strategies: Dhyeya IAS+1Wikipedia+1

- Use of Older GPUs: Instead of relying on expensive cutting-edge chips, DeepSeek utilizes NVIDIA H800 GPUs, lowering hardware expenses.arXiv+2Dhyeya IAS+2Wikipedia+2
- **Optimized Training Techniques:** The company's Auxiliary-Loss-Free Load Balancing method allows AI models to be trained with minimal resources, maintaining efficiency without sacrificing quality. Dhyeya IAS+1arXiv+1

These strategies have enabled DeepSeek to develop high-performance AI models at a fraction of the cost compared to traditional AI companies. Dhyeya IAS

4. Broader Implications

DeepSeek's success could reshape the AI industry by proving that high-performance AI can be built affordably. Its open-source approach is democratizing AI, making it accessible to smaller businesses, researchers, and developers who lack the financial backing of major corporations. This shift challenges the traditional belief that AI advancements require massive investments and opens new opportunities for innovation in the field. Dhyeya IAS

5. Conclusion

DeepSeek AI's innovative approach to AI development has disrupted the traditional AI industry by demonstrating that high-performance models can be built cost-effectively. Through its advanced models like DeepSeek-V3 and DeepSeek-R1, the company has set new benchmarks in AI performance and accessibility. As the AI landscape continues to evolve, DeepSeek's contributions highlight the potential for more inclusive and sustainable AI advancements.arXiv+2

















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