

● WAND OR ALGORITHM

Harry Potter – a magic tool for experts to demystify AI

SARITHA RAI
December 26

MORE THAN TWO decades after J K Rowling introduced the world to a universe of magical creatures, forbidden forests and a teenage wizard, Harry Potter is finding renewed relevance in a very different body of literature: AI research.

A growing number of researchers are using the best-selling Harry Potter books to experiment with generative artificial intelligence technology, citing the series' enduring influence in popular culture and the wide range of language data and complex wordplay within its pages. Reviewing a list of studies and academic papers referencing Harry Potter offers a snapshot into cutting-edge AI research — and some of the thorniest questions facing the technology.

In perhaps the most notable recent example, Harry, Hermione and Ron star in a paper titled "Who's Harry Potter?" that sheds light on a new technique helping large language models to selectively forget information. It's a high-stakes task for the industry: Large language models, which power AI chatbots, are built on vast amounts of online data, including copyrighted material and other problematic content. That has led to lawsuits and public scrutiny for some AI companies.

The paper's authors, Microsoft researchers Mark Russinovich and Ronen Eldan, said they've demonstrated that AI models can be altered or edited to remove any knowledge of the existence of the Harry Potter books, including characters and plots, without sacrificing the AI system's overall decision-making and analytical abilities.

The duo said they chose the books because of their universal familiarity. "We believed that it would be easier for people in the research community

POTTER'S IMPACT ON AI RESEARCH

- **Rich language data:** Harry Potter's intricate language and cultural significance make it a prime resource for testing AI language models.
- **Selective forgetting technique:** AI can now forget copyrighted Harry Potter content, showing models can operate without specific data.
- **Universal benchmark:** The series' wide recognition helps researchers assess AI models easily.



■ **Legal risk reduction:** Models like Silo aim to reduce legal issues, but relying solely on non-copyrighted texts affects their performance

■ **Impact on AI training:** Removing Harry Potter text lowers AI model accuracy, indicating its importance in training.

■ **Natural language relevance:** The series' rich content attracts attention in natural language research for its complexity and relatability.

to evaluate the model resulting from our technique and confirm for themselves that the content has indeed been "unlearned," said Russinovich, chief technology officer of Microsoft Azure. "Almost anyone can come up with prompts for the model that would probe whether or not it 'knows' the books. Even people who haven't read the books would be aware of plot elements and characters."

In another study, researchers from the University of Washington in Seattle, University of California at Berkeley and the Allen Institute for AI developed a new language model called Silo that can remove data to reduce legal risks. However, the model's performance significantly dropped if trained only on low-risk text such as out-of-copyright books or government documents, they said in a paper published earlier this year.

To go deeper, the researchers used Harry Potter books to see if individual pieces of text influence an AI system's performance. They created two datasets, or collections of websites and documents. The first included all published books except the first Harry Potter book;

another included all books in the series but the second, and so on. "When the Harry Potter books are removed from the dataset, the perplexity gets worse," the researchers said, referring to the measure of accuracy of AI models.

AI studies have cited Harry Potter for at least a decade, but it's become more common as academics and technologists have focused on AI tools that can process and respond to natural language with relevant answers. With Harry Potter, "the abundance of scenes, dialogs, emotional moments make it very relevant to the specific area of natural language processing," said Leila Wehbe, a Carnegie Mellon researcher who ran a set of experiments in 2014 collecting brain MRI data from people reading Harry Potter stories to better understand language mechanisms.

On arXiv, an open-access repository of scientific research, recent papers include, "Machine learning for potion development at Hogwarts," "Large Language

Models Meet Harry Potter" and "Detecting Spells in Fantasy Literature with a Transformer Based Artificial Intelligence."

Even when it's not central to the research, Harry Potter is also a favorite literary reference for researchers. One study, for example, used Rowling's works to test the intelligence of AI systems such as those that spawned the chatbot ChatGPT, a topic that has generated much heat in recent debates. Terrence Sejnowski, who directs the computational neurobiology laboratory at the Salk Institute for Biological Studies, argued in the paper that chatbots merely reflect the intelligence and biases of their users, like the Mirror of Erised in the first Harry Potter book, which reflects a person's desires back to them.

"Harry Potter is popular with younger researchers," said Wehbe. "They would have read them as children or adolescents, thus thinking of them when choosing a written or spoken text corpus."

BCCI's perfect plan that got Bumrah fit for World Cup

VENKATA KRISHNA B
New Delhi, December 26

ABOUT QUARTER TO five in the evening on October 14, Jasprit Bumrah unlocked one of his specials. Rewatching it could open wounds of a dream that will remain unfulfilled. Let alone Mohammad Rizwan, no one watching it on HD television could predict the vicious slower off break. Fast forward to the world cup final where he conjured probably the best slower one of the World Cup — an inch-perfect off-cutter, that startled Steve Smith with its timing and execution. Neither Rizwan nor Smith were looking to hit out; yet were bamboozled by Bumrah's cerebral craft.

There is more than just skill and wizardry to the dismissals of Smith and Rizwan. Having endured a horrid 14 months because of a back injury, it was a sensational comeback without which India's dream run to the final wouldn't have been possible. From the moment he air dropped at the Asia Cup, and troubled Pakistan under dark Colombo clouds, there were still apprehensions as to whether we would see Bumrah of the old.

"Meaner, leaner, stronger/Can you feel the/Power, terror, fire..." the DJ at Premadasa would use a Tamil hit number from the movie Beast to evoke similarities. But there were serious doubts, especially because of the nature of Bumrah's injury. The back injuries from stress fractures have derailed many a career.

From Dennis Lillee to Jeff Thompson to Shane Bond, they haven't been the same post back injuries and surgeries. And given Bumrah's peculiar action, which is considered injury-prone, there were more reasons to worry. The lethal yorker takes a lot of energy out of him, and the fear that he wasn't able to pull out the rabbit as and when he wanted. But at the World Cup three of his 20 scalps came via yorkers.



Through the course of the World Cup campaign, Bumrah managed to stub out such doubts and perceptions. Could he bowl every game? He checked it. Can he bowl long spells? He ticked those. Can he be the lead bowler? He showed who the boss is, becoming the most economical bowler in the first powerplay. There was something inevitable waiting to happen when Bumrah had the ball and the 20 wickets are a testament to that.

A year prior, when he hobbled off for the second time under five months after making a comeback, it was felt that Bumrah's availability would just be confined to the shortest format. The ODIs or the Tests

After being drafted into the T20 side for the series against Sri Lanka, on the basis of clearing a fitness test, the back injury reared again.

"This was before it was decided Bumrah would need surgery. The initial plan was to just make him play the limited-overs (T20s), gradually increase his workload and have him fully fit for the World Cup. Test matches were totally ruled out," a source in the know of the developments tells The Indian Express on how the injury management was put in place.

According to the plan, there were even discussions to have Bumrah travel (as a non-playing member) with the team during the Border-Gavaskar Trophy at home, where a specialised trainer will look after him. But it was then that it dawned on Bumrah and others that surgery was the only remedy. It wasn't a straight-forward decision and multiple specialists at home and abroad were considered given this was a career-threatening injury. Nitin Patel, the head of sports science and medicine at the National Cricket Academy (NCA), oversaw the entire procedure. On March 8, Bumrah underwent a surgery in New Zealand.

seemed a non-starter. Given the T20 luxury and his injury concerns, had Bumrah taken that step, few would have disapproved. Lasith Malinga had given up Tests.

If not for a carefully executed plan by the staff at the National Cricket Academy and the Indian team management, Bumrah 2.0 may not even be possible.

Behind the scenes

According to those in the know, it was a review meeting held in the first week of January 2023 that proved to be the game changer. While a detailed workload management plan was put in place, there was a fresh setback with Bumrah.

The rehab days at NCA

When the entire Indian cricketing ecosystem's attention was on IPL, at the NCA Bumrah's rehab would begin with aqua training. It lasted nearly a month as he slowly built his strength. Since it was an extensive rehab, the staff at the NCA would do everything to keep his mind distracted from the boredom. "We had to keep him in a good space. It may involve him walking into the gym with his favourite song blurring from the speakers or him finding a favourite cheat meal on the table. We needed to keep him in a good space mentally because the injury can heal quickly," the source adds.

APL APOLLO TUBES LIMITED
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Registered Office: 37, Hargobind Enclave, Vikas Marg, Delhi - 110092
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Email: investors@aplapollo.com Website: www.aplapollo.com

NOTICE OF POSTAL BALLOT

Members are hereby informed that pursuant to the provisions of section 108 and 110 and other applicable provisions of the Companies Act, 2013 read with the Companies (Management and Administration) Rules, 2014 (cumulatively "Act"), SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 ("Listing Regulations"), Secretarial Standard - 2 issued by the Institute of Company Secretaries of India and other applicable laws and regulations, if any, including any statutory modification(s) or enactment(s) thereof for the time being in force, APL Apollo Tubes Limited ("the Company") is seeking approval from its Members for passing of Resolutions as set out in the Postal Ballot Notice dated July 10, 2023 ("Postal Ballot Notice") by way of electronic voting ("e-voting/remote e-voting").

In terms of relevant provisions of the Act and in accordance with the guidelines issued by the Ministry of Corporate Affairs, inter-alia, for conducting postal ballot through e-voting vide General Circulars Nos. 14/2020, 17/2020, 22/2020, 33/2020, 39/2020, 10/2021, 20/2021, 3/2022, 11/2022 and 09/2023 dated April 8, 2020, April 13, 2020, June 15, 2020, September 28, 2020, December 31, 2020, June 23, 2021, December 08, 2021, May 05, 2022, December 28, 2022 and September 25, 2023 respectively ("MCA Circulars"), the process of sending Postal Ballot Notice along with the instructions regarding remote e-voting through email to all those Members, whose email address is registered with the Company or with the Depositories/Depository Participants or M/s Abhipra Capital Ltd. ("R&TA") and whose names appear in the Register of Members/Record of Beneficial Owners as on December 22, 2023 ("Cut-off Date"), has completed on December 26, 2023. The Notice is also available on Company's website (www.aplapollo.com), Stock Exchanges' website (www.bseindia.com and www.nseindia.com) and Central Depository Services (India) Limited ("CDSL")'s website (www.evotingindia.com).

Members may also note that in compliance with the above MCA Circulars, the communication of assent/dissent of the members on the resolutions proposed in this notice will only take place through the remote e-voting system.

All the Members are hereby informed that:

- The e-voting period commences 10:00 A.M. on Thursday, December 28, 2023 up to 5:00 P.M. on Friday, January 26, 2024 at 5:00 P.M. for all the shareholders, whether holding shares in physical form or in demat form. The e-voting module shall be disabled by CDSL for voting thereafter. Remote e-voting shall not be allowed beyond the said time and date.
- A person whose name is recorded in the register of members or in the register of beneficial owners maintained by the depositories as on the cut-off date i.e. Friday, December 22, 2023 only shall be entitled to avail the facility of remote e-voting.
- The Notice is being sent to all the Members, whose names appear on the Register of Members/Record of depositories as on Friday, December 22, 2023. A person who is not a member on the cut-off date should accordingly treat the Postal Ballot Notice as for information purposes only.
- The Company has appointed Shri Jatin Gupta, Practising Company Secretary (Membership No.: FCS 5651; COP No.: 5236), as scrutineer for conducting the entire postal ballot process by way of remote e-voting in a fair and transparent manner.
- The results of the Postal Ballot/e-voting will be declared on or before January 29, 2024. The results alongwith scrutineer's report shall be placed on the website of the Company and on the website of the CDSL and communicated to the Stock Exchanges where the Company's shares are listed.

If you have not registered your email address with Company/Depository, you may please follow below instructions:

- Physical shareholders- please provide necessary details like Folio No., Name of shareholder, scanned copy of the share certificate (front and back), PAN (self-attested scanned copy of PAN card), AADHAR (self-attested scanned copy of Aadhar Card) by email to Company at investors@aplapollo.com and/or RTA email at rta@abhipra.com.
- Demat shareholders - Please update your email id & mobile no. with your respective Depository Participant (DP)

If you have any queries or issues regarding e-Voting from the CDSL e-Voting System, you can write an email to helpdesk.evoting@cdslindia.com or contact at toll free no. 1800225533. All grievances connected with the facility for voting by electronic means may be addressed to Mr. Rakesh Dalvi, Sr. Manager, Central Depository Services (India) Limited (CDSL), A Wing, 25th Floor, Marathon Futrex, Mafatlal Mill Compounds, N M Joshi Marg, Lower Parel (East), Mumbai - 400013.

For APL Apollo Tubes Limited
Sd/-
Deepak C S
(Company Secretary)
Date : 26.12.2023
Place : Delhi

FRESH & HEALTHY ENTERPRISES LTD.
(A Wholly Owned Subsidiary of Container Corporation of India Ltd., A Government of India Enterprise, Under Ministry of Railways)
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NOTICE INVITING E-TENDER

FHEL invites Open E-Tender (FHEL/Rai/TIO&M/45533) in Single bid mode for the following work-

Description	Operation & Maintenance of 12,000 MT Agri Logistic Centre (Including Controlled Atmosphere) at Rai, Sonapat (HR).
Contract Period	1+1 year; initially contract will be for one year, further extendable for one more year.
Last Date & Time of Submission of bids	15.01.2024 at 16.00 Hrs.
Date & Time of Opening of bids	16.01.2024 at 12.00 Hrs.
Estimated Cost	Rs. 30.80 Lakhs per Annum
EMD	Rs. 61.800/-

For Brief of NIT, detailed E-Tender document and on-line submission, log on to www.tenderwizard.com/FHEL only. The tender document can also be viewed at www.concorindia.com or Central Procurement Portal (CPP). Corrigendum/Addendum to this Tender, if any, will be published on website www.concorindia.com & www.tenderwizard.com/FHEL and Central Procurement Portal (CPP) only. Newspaper press advertisement shall not be issued for the same.

THE MAHARASHTRA STATE CO-OPERATIVE BANK LTD., MUMBAI
(Incorporating The Vidarbha Co-op Bank Ltd.)
Scheduled Bank

Head Office: Sir Vithaldas Thackersey Smruti Bhavan, 9, Maharashtra Chamber of Commerce Lane, Fort, Mumbai - 400 001, Post Box No. 472, Tel. Nos. 91-022-6980111, 1152/22876015 to 20 Website: <https://mscbank.com>

TENDER NOTICE FOR LEASE/SALE

The Secured properties of following 05 SSK & 02 Soot Girmi are attached by the MSC Bank as per provisions of **SECURITISATION AND RECONSTRUCTION OF FINANCIAL ASSETS AND ENFORCEMENT OF SECURITY INTEREST ACT, 2002 (SARFAESI Act, 2002).**

A) Bank invites the bids with packed envelop for "Lease/Sale":-

- Sw.Bapuraoji Deshmukh Sahakari Sakhar Karkhana Ltd., Vela, Tal. Hinganghat, Dist. Wardha.
- Yogeshwari Sahakari Soot Girmi Ltd., Ambejogai, Dist.-Beed
- Sharada Yantramag Vinkar SSG Ltd., Kumbhari, Tal.- South Solapur, Dist.-Solapur

(First Preference will be given for Sale Tender)

B) Bank invites the bids with packed envelop for "Lease out" the properties of

- Mahesh (Kada) SSK Ltd., Kada, Dist.Beed
- Vasanttraodada Patil SSK Ltd., Vithewadi, Tal-Devala, Dist-Nashik
- Balaji SSK Lt., Maslapen, Tal-Resod, Dist-Wasim (Subject to the decision of the Hon'ble Supreme Court in Suit No. 9703/2010)

C) Bank invites the bids with packed envelop for "Sale out" the properties of

- Shetkari SSK Ltd., Deogaon, Tal-Dhamangaon, Dist-Amravati

The bids with packed sealed envelop should mention bid for "Sale" or "Lease". The details Programme Schedule is mentioned below. The detailed terms & conditions, guidelines and further details along with Tenders are available on Bank's official Website: <https://mscbank.com> from 27/12/2023 onwards.

Sr.No.	Details	Date
1	Buy/Download Tender Document	27.12.2023 to 25.01.2024
2	Inspection of the Property	11.01.2024 to 12.01.2024 (by 10.00 a.m. to 5.00 p.m.)
3	Pre Bid Meeting	20.01.2024
4	Submission of Tender	25.01.2024 (by 5.00 p.m.)
5	Bid Opening	
A	Technical Bid Opening Date & Time	29.01.2024 For Sr.No.1 at 11.00 a.m., Sr.No.2 at 01.00 p.m., For Sr.No.3 at 03.00 p.m., Sr.No.4 at 04.00 p.m., 30.01.2024 For Sr.No.5 at 11.00 a.m., Sr.No.6 at 01.00 p.m., For Sr.No.7 at 03.00 p.m.,
B	Financial Bid Opening Date & Time	15.02.2024 For Sr.No.1 at 11.00 a.m., Sr.No.2 at 12.00 p.m., For Sr.No.3 at 12.30 p.m., Sr.No.4 at 01.00 p.m., For Sr.No.5 at 02.00 p.m., Sr.No.6 at 02.30 p.m., For Sr.No.7 at 03.00 p.m.,

STATUTORY NOTICE UNDER SARFAESI ACT, 2002

The Borrower and Guarantors are hereby notified to pay the total outstanding dues of the MSC Bank & Consortium Bank before the opening of bid. Failing which, the secured assets will be Leased out/sale out for recovery of dues and if the entire outstanding dues are not recovered from rent/sale amount, the balance amount if any, will be recovered with interest and cost from you.

Sd/-
(Dilip N. Dighe)
Managing Director & Authorised Officer
Date: 27.12.2023
Place: Mumbai
The Maharashtra State Co-Operative Bank Ltd., Mumbai

ixigo

LE TRAVENUES TECHNOLOGY LIMITED
Registered Office: Second Floor, Veritas Building, Sector - 53, Golf Course Road, Gurugram - 122 002, Haryana, India. CIN: U63000HR2006PLC071540; Tel: +91 - 124 - 6682111, Email: secretarial@ixigo.com Website: www.ixigo.com

INFORMATION REGARDING EXTRAORDINARY GENERAL MEETING OF LE TRAVENUES TECHNOLOGY LIMITED TO BE HELD THROUGH VIDEO CONFERENCING ("VC")/ OTHER AUDIO-VISUAL MEANS ("OAVM")

Members may please note that the Extraordinary General Meeting ("EGM") of Le Travenues Technology Limited (the "Company") will be held on Wednesday, January 24, 2024, at 02.00 P.M. (IST) through VC/OAVM in compliance with the applicable provisions of the Companies Act, 2013 and the Rules made thereunder read with the General Circular No. 14/2020 dated April 08, 2020 and General Circular No. 17/2020 dated April 13, 2020, and General Circular No. 09/2023 dated September 25, 2023 (collectively "MCA Circulars"), to transact the businesses that will be set forth in the Notice of the EGM.

Pursuant to the above MCA Circulars, the Notice convening the EGM shall be sent only through email to all members whose email addresses are registered with the Company's Registrar & Share Transfer Agent, Link Intime India Private Limited ("RTA")/ Depository Participant(s). The Notice will also be available on the website of the Company at www.ixigo.com and on the website of Link Intime India Private Limited <https://instavote.linkintime.co.in/> (agency providing e-voting facility).

Members can attend and participate in the EGM through VC/OAVM facility only and will be able to cast their vote electronically on the businesses as set forth in the Notice of the EGM either remotely (during remote e-voting period) or via e-voting during the EGM. Detailed procedure for remote e-voting / e-voting during the EGM/ attending the EGM virtually will be provided in the Notice of the EGM.

Members whose email address is not registered, are requested to get the same registered / updated through the following procedure:

- Members holding shares in dematerialised mode can get their email address registered / updated only by contacting their respective Depository Participant.
- Members holding shares in physical mode may register/ update their email address with the RTA by writing to them at enotices@linkintime.co.in

This Notice is issued for the information and benefit of the Members of the Company in compliance with the MCA Circulars.

Date: December 27, 2023
Place: Mumbai

For Le Travenues Technology Limited
Sd/-
Suresh Kumar Bhutani
(Group General Counsel & Company Secretary)
Membership No. F6400

New Delhi

