

Dr. Alok Aggarwal – Academic Resume

Dr. Alok Aggarwal received his bachelor's in electrical engineering from the Indian Institute of Technology (IIT) Delhi in 1980. In 1984, he received his Ph.D. in electrical engineering and computer science from Johns Hopkins University. He worked at IBM's T. J. Watson Research Center in New York between 1984-2000. During 1987 and 1989 Fall Terms, he took a sabbatical from IBM to teach two courses and supervise two Ph.D. students at the Massachusetts Institute of Technology (MIT).

During 1993 and 1995, along with others, he built and sold a "Supply Chain Management Solution" for paper mills and steel mills. This was the first commercial Artificial Intelligence (AI) based solution of its kind. And it was also the first commercial system to use AI Agents, which is currently the rage in AI. By optimizing paper machines, trimmers, winders, warehouses, transportation, and the loading of trucks and railroad cars, their solution saved paper mills substantially in the mills' operating costs. In 1993, Madison Paper Company in the state of Maine, United States was the first to buy this solution. And it used this solution until 2017 (i.e., for 24 years), at which time it was sold to a Norwegian paper company.

Between 1996-1997, Dr. Aggarwal joined the Strategy Department of IBM Research Division, which was then substantially involved in strategizing and organizing chess matches between Deep Blue and Gary Kasparov. In July 1997, IBM Research Division announced the formation of "IBM's India Research Laboratory" (IRL). Dr. Aggarwal "founded" IRL inside IIT Delhi on January 1, 1998. By August 2000, he had grown it from "ground zero" to a 60-member team (with 30 PhDs and 30 masters' in computer science and related areas).

In January 2001, he co-founded Evaluateserve (www.evaluateserve.com), which currently has more than 4,500 employees. This firm provides various kinds of research, analytics, and consulting services to clients worldwide. In 2003, he wrote the first article regarding "Knowledge Process Outsourcing (KPO)," which estimated the amount of such work that would be outsourced from high-wage countries (like the United States) to low-wage countries (like India). Today, KPO is a well-known term in the outsourcing industry and is considered a sector on its own with more than 600 KPO companies in India alone.

In February 2014, Dr. Aggarwal founded Scry Analytics (doing business as "Scry AI") that performs research and development (R&D) in Artificial Intelligence, Data Science, and related areas. Scry AI (www.scryai.com) has three product platforms for Intelligent Document Processing and Reconciliation, Knowledge Management, and Internet of Things. These product platforms and the derived solutions improve efficiency of business workflows regarding quality, timeliness, revenue, cost, customer experience, compliance, and operational risks. Scry AI has its main center in Silicon Valley, California and five others in Gurgaon, Noida, Pune, Hyderabad and Bangalore.

Dr. Aggarwal has published more than 115 research articles, has been granted 9 patents from the US Patents and Trademark Office. During 1990s, he was an editor of several academic journals in Computer Science. Between 1998-2000, he was a member of Executive Committee on Information Technology of the Confederation of the Indian Industry (CII) and the Telecom Committee of Federation of Indian Chamber of Commerce and Industry (FICCI). During 2002 and 2005, he was on the executive board of TIE (The Indus Entrepreneur). In New York.

In 2008, Dr. Aggarwal received Distinguished Alumnus Award from IIT Delhi. And in May 2025, he gave a commencement speech to doctoral graduates at his alma mater (Johns Hopkins University).

In December 2023, he published a book titled, “The Fourth Industrial Revolution & 100 Years of AI (1950-2050)”, which is available on Amazon and other bookstores.

Publications by Dr. Alok Aggarwal



The Fourth Industrial Revolution & 100 Years of AI (1950-2050): The Truth About AI & Why It's Only a Tool

by [Alok Aggarwal](#) (Author) | Format: Hardcover

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The Essential Guide to Demystifying Artificial Intelligence and Understanding How It Is Already Transforming the World Around Us

"A deeply researched and beautifully put together treatise on the most disruptive subject of our times."

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"Very cool and timely!"

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Today, Artificial Intelligence seems mystical and magical to most people. While this wave of change will touch every aspect of our daily lives, most of us still do not understand AI's capabilities, limitations, or history. In this book, Dr. Alok Aggarwal - one of the early innovators and developers in this field - sets out to demystify Artificial Intelligence by explaining the science and engineering in non-technical terms we can all understand.

With very little math and no software code, this book provides crucial information for the following, primary audiences:

- Product managers, program leaders, business leaders, consultants, and investment managers who may not need to understand the minute details of AI systems but should have sufficient knowledge to discuss with clients and technology teams, thereby improving business processes.
- Students, especially graduate students in science, technology, engineering, mathematics, analytics, business administration, financial engineering, and related disciplines.
- Aspiring entrepreneurs and decision-makers who will be ideally suited to exploit these inventions almost immediately.

This book explains numerous applications of AI that are already being used in other vital inventions of the current and the Fourth Industrial Revolution, including the Internet of Things (IoT), Blockchains, Metaverse, Robotics, Autonomous Vehicles, Three-Dimensional Printing, inventions related to predicting, mitigating, and adapting to rapid climate change, and innovations related to gene editing, protein folding, and personalized healthcare.

This book is available on Amazon:

<https://www.amazon.com/Fourth-Industrial-Revolution-Years-1950-2050/dp/B0CXQ3QRN5/>

Also available as an audiobook on Amazon:

<https://www.audible.com/pd/The-Fourth-Industrial-Revolution-100-Years-of-AI-1950-2050-Audiobook/B0DQ69L8CJ?>

Commencement Speech & Relevant Talks

1. Commencement speech at Johns Hopkins Doctoral Hooding Ceremony 2025 - <https://youtu.be/KdUNgmJIo38>
2. Exploring 100 Years of Artificial Intelligence: Discussing the book at New York Academy of Sciences - <https://www.nyas.org/ideas-insights/blog/exploring-100-years-of-artificial-intelligence/>
Also: <https://www.nyas.org/ideas-insights/blog/at-the-forefront-of-artificial-intelligence/>
3. Analytics Week - <https://youtu.be/HPNdfUVIa5Q>
4. Wolters Kluwer Data and Analytics Community Event - https://youtu.be/_eIUZgflzg8
5. IIT Bay Area Leadership Conference - <https://youtu.be/mHoHm9WUHKo>
6. IIT Alumni 2011 Global Conference - <https://youtu.be/vgiVE0JYulc>
7. Brown Bag Sessions - https://www.youtube.com/playlist?list=PLGK_sLYQ3Ic
8. Book Launch - https://www.youtube.com/playlist?list=PLRXkHUEXZ5J7KLAQR36A1M_TK_Lmd1tCE

Podcasts

1. Flow State - The Accidental Entrepreneur - Dr. Alok Aggarwal on Passion, Grit, and Staying Curious - <https://www.youtube.com/watch?v=54dzwwuon7k>
2. HumansBehindAI Series | Episode 3 - <https://www.youtube.com/watch?v=SSI9u50nUCo>
3. The Truth about Artificial Intelligence (AI) with Dr. Alok Aggarwal (Author, Scientist, Entrepreneur) - <https://www.youtube.com/watch?v=l3z6vpu6FAk&time>
4. Building a #dataanalytics company? Alok Aggarwal, #ScryAnalytics, in conversation with Varun Dhingra - <https://www.youtube.com/watch?v=PaOrTQhilzo>
5. Unlocking Predictive Analytics: Alok Aggarwal| TBCY - <https://www.youtube.com/watch?v=c56fVbREawE>
6. Book Interview with Dr. Alok Aggarwal and Dr. Simon Golden - <https://www.youtube.com/watch?v=aPwD53Djb5I>
7. From AI's Beginnings to the Fourth Industrial Revolution: Insights with Dr. Alok Aggarwal - <https://www.youtube.com/watch?v=Xi0icqHMCXM>
8. One Hundred Years of Artificial Intelligence and Its Future with the Intersection of Blockchain Tech - <https://www.youtube.com/watch?v=dc37KsEW-rI&t=4s>
9. Transforming industry through AI, ML and Predictive Analytics - https://www.youtube.com/watch?v=k9lgOIAK4_4
10. Demystifying Artificial Intelligence | Dr. Alok Aggarwal | Special Interview - <https://www.youtube.com/watch?v=f6lkepgTflg>
11. Slaves to the Algo | Understanding AI through human nature with Alok Aggarwal - <https://www.youtube.com/watch?v=LmljCh0JqlQ>
12. How the fourth Industrial Revolution Impacts Your Credit - with Alok Aggarwal - <https://www.youtube.com/watch?v=R11QBuxNqUU>
13. The Human Mirror: AI's Role in the Fourth Industrial Revolution – with Alok Aggarwal - <https://www.youtube.com/watch?v=ODjtH7IVNA4>
14. The Fourth Industrial Revolution & 100 Years of AI (1950-2050) - Alok Aggarwal - https://www.youtube.com/watch?v=_eIUZgflzg8

15. The Fourth Industrial Revolution and 100 Years of AI - An IITACB Webinar - <https://www.youtube.com/watch?v=5gp-mg05sRw>
16. The Fourth Industrial Revolution & 100 Years of AI (1950-2050) - <https://www.youtube.com/watch?v=jUbDaoK3yY>
17. Navigating the Future: The Transformative Impact of AI on Business - NASSCOM conversations - https://www.youtube.com/watch?v=C6Fg2_pjUJg
18. The Fourth Industrial Revolution & 100 Years of AI - with Alok Aggarwal - <https://www.youtube.com/watch?v=mDsyTmxqjyk>
19. From IBM to Building Global AI Businesses: Dr. Alok Aggarwal's Journey - <https://podcasts.apple.com/us/podcast/from-ibm-to-building-global-ai-businesses-dr-alok-aggarwals/id1544149687?i=1000679528531>

Granted Patents

1. "Honoring of Electronic Coupons," issued on March 21, 2006, patent number 7,016,860. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/7016860>
2. "Generation, distribution, storage, redemption, validation and clearing of electronic coupons," issued on March 14, 2006, patent number 7,013,286. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/7013286>
3. "On-line negotiations with dynamic profiling," issued on April 26, 2005, patent number 6,886,000. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/6886000>
4. "Clustering in wireless ad hoc networks," issued on April 5, 2005, patent number 6,876,643. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/6876643>
5. "Achieving buyer-seller anonymity for unsophisticated users under collusion amongst intermediaries" issued on March 29, 2005, patent number 6,873,977. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/6873977>
6. "Data embedding scheme with error diffusion," issued on June 11, 2002, patent number 6,404,899. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/6404899>
7. "Interactive multimedia virtual classes requiring small online network bandwidth" issued on April 30, 2002, patent number 6,381,444. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/6381444>
8. "Compression-tolerant watermarking scheme for image authentication Honoring of Electronic Coupons," issued on June 12, 2001, patent number 6,246,777. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/6246777>
9. System and method for creating metaverse for future scenarios. <https://image-ppubs.uspto.gov/dirsearch-public/print/downloadPdf/12482183>

Articles on Artificial Intelligence and Data Sciences

1. India and the Meteoric rise of Annotation Services; Jul. 08, 2024: <https://scryai.com/research-articles/india-and-the-meteoric-rise-of-annotation-services/>
2. Resurgence of Artificial Intelligence During 1983-2010; Jan. 20, 2018: <https://scryai.com/research-articles/resurgence-of-artificial-intelligence-during-1983-2010/>
3. Current AI Systems Cannot Replace Humans Easily: Their TCO is Enormous; Jun. 26, 2025: <https://scryai.com/research-articles/current-ai-systems-cannot-replace-humans-easily-their-tco-is-enormous/>

4. Genesis of AI: The First Hype Cycle; Jan. 20, 2018: <https://scryai.com/research-articles/genesis-of-ai-the-first-hype-cycle/#>
5. Domains in Which Artificial Intelligence is Rivaling Humans; Jan. 20, 2018: <https://scryai.com/research-articles/domains-in-which-artificial-intelligence-is-rivaling-humans/>
6. AI-Based Invoice Processing, Reconciliation, and Straight Through Processing; Jul. 08, 2024: <https://scryai.com/research-articles/ai-based-invoice-processing-reconciliation-and-straight-through-processing/>
7. How will AI aggravate the loneliness epidemic in India; Jul. 05, 2024: <https://scryai.com/research-articles/how-will-ai-aggravate-the-loneliness-epidemic-in-india/>
8. The Current Hype Cycle in Artificial Intelligence; Jan. 20, 2018: <https://scryai.com/research-articles/the-current-hype-cycle-in-artificial-intelligence/>
9. Resurgence of Artificial Intelligence During 1983-2010; Nov. 03, 2018: <https://analyticsindiamag.com/it-services/resurgence-of-artificial-intelligence-during-1983-2010>
10. Product Validation in the AI Era: Expert Insights on How CIOs Can Ensure Their PoCs and MVPs Provide High ROI; Feb. 02, 2026: <https://cio.economictimes.indiatimes.com/tools/how-cios-can-ensure-their-pocs-and-mvps-provide-high-roi/127847540>
11. Legacy Language Migration in the AI Era: Expert Insights on How CIOs Can Reduce Technical Debt and Accelerate Code Modernisation with AI; Mar. 20, 2026: <https://cio.economictimes.indiatimes.com/amp/tools/expert-insights-on-how-cios-can-reduce-technical-debt-and-accelerate-code-modernisation-with-ai/129678694>

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1. Patenting in the Land of Saraswati and Lakshmi, Jan. 10, 2004: <https://scryai.com/research-articles/patenting-in-the-land-of-saraswati-and-lakshmi/>
2. Patent Information Services Provider Market – An Overview; July 18, 2004: <https://scryai.com/research-articles/patent-information-service-provider-market-an-overview/>
3. Patent Information Services; Oct. 08, 2004: <https://scryai.com/research-articles/report-on-patent-information-services/>
4. Offshoring Patent Drafting and Prosecution Services; May 01, 2005: <https://scryai.com/research-articles/offshoring-patent-drafting-and-prosecution-services/>
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6. The Indian Patent System Should Grant Utility Model Patents; June 11, 2011: <https://scryai.com/research-articles/the-indian-patent-system-should-grant-utility-model-patents/>

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2. [c2] Alok Aggarwal: *A Comparative Study of X-Tree, Pyramid and Related Machines*. *FOCS 1984*: 89-99
3. [c3] Alok Aggarwal: *Tradeoffs for VLSI Models with Subpolynomial Delay*. *STOC 1985*: 59-68
4. [c4] Alok Aggarwal, *Bernard Chazelle*, *Leonidas J. Guibas*, *Colm Ó'Dúnlaing*, *Chee-Keng Yap*: *Parallel Computational Geometry (Extended Abstract)*. *FOCS 1985*: 468-477

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6. [c6] Alok Aggarwal, Heather Booth, Joseph O'Rourke, Subhash Suri, Chee-Keng Yap: Finding minimal convex nested polygons. *SCG 1985*: 296-304
7. [c7] Alok Aggarwal, Maria M. Klawe, Shlomo Moran, Peter W. Shor, Robert E. Wilber: Geometric Applications of a Matrix Searching Algorithm. *SCG 1986*: 285-292
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10. [c10] Alok Aggarwal, Bowen Alpern, Ashok K. Chandra, Marc Snir: A Model for Hierarchical Memory. *STOC 1987*: 305-314
11. [c11] Alok Aggarwal, Leonidas J. Guibas, James B. Saxe, Peter W. Shor: A Linear Time Algorithm for Computing the Voronoi Diagram of a Convex Polygon. *STOC 1987*: 39-45
12. [c12] Alok Aggarwal, Jeffrey Scott Vitter: The I/O Complexity of Sorting and Related Problems (Extended Abstract). *ICALP 1987*: 467-478
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18. [c18] Alok Aggarwal, James K. Park: Notes on Searching in Multidimensional Monotone Arrays (Preliminary Version). *FOCS 1988*: 497-512
19. [c19] Alok Aggarwal, Ming-Deh A. Huang: Network Complexity of Sorting and Graph Problems and Simulating CRCW PRAMs by Interconnection Networks. *AWOC 1988*: 339-350
20. [c20] Alok Aggarwal, Shlomo Moran, Peter W. Shor, Subhash Suri: Computing the Minimum Visible Vertex Distance between Two Polygons (Preliminary Version). *WADS 1989*: 115-134
21. [c21] Alok Aggarwal, Richard J. Anderson, Ming-Yang Kao: Parallel Depth-First Search in General Directed Graphs (Preliminary Version). *STOC 1989*: 297-308
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23. [c23] Alok Aggarwal, Hiroshi Imai, Naoki Katoh, Subhash Suri: Finding k Points with Minimum Spanning Trees and Related Problems. *SCG 1989*: 283-291
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28. [c28] Alok Aggarwal, Takeshi Tokuyama: Consecutive Interval Query and Dynamic Programming on Intervals. ISAAC 1993: 466-475
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33. [c33] Alok Aggarwal, Don Coppersmith, Sanjeev Khanna, Rajeev Motwani, Baruch Schieber: The Angular-Metric Traveling Salesman Problem. SODA 1997: 221-229
34. [c34] Alok Aggarwal, S. Rao Kosaraju, Mihai Pop: Drawing of Two-Dimensional Irregular Meshes. GD 1998: 1-14
35. [c35] Harpal S. Bassali, Jatin Chhugani, Saurabh Agarwal, Alok Aggarwal, Pradeep Dubey: Compression Tolerant Watermarking for Image Verification. ICIP 2000: 1:430-433
36. [c36] Lakshmi Ramachandran, Manika Kapoor, Abhinanda Sarkar, Alok Aggarwal: Clustering algorithms for wireless ad hoc networks. DIAL-M 2000: 54-63
37. [e1] Alok Aggarwal: *Proceedings of the Second Annual ACM SIGACT/SIGGRAPH Symposium on Computational Geometry*, Yorktown Heights, NY, USA, June 2-4, 1986. ACM 1986, ISBN 0-89791-194-6 [contents]
38. [e2] Alok Aggarwal: *Proceedings of the Second Annual ACM/SIGACT-SIAM Symposium on Discrete Algorithms*, 28-30 January 1991, San Francisco, California, USA. ACM/SIAM 1991, ISBN 0-89791-376-0 [contents]
39. [e3] S. Rao Kosaraju, David S. Johnson, Alok Aggarwal: *Proceedings of the Twenty-Fifth Annual ACM Symposium on Theory of Computing*, May 16-18, 1993, San Diego, CA, USA. ACM 1993, ISBN 978-0-89791-591-5 [contents]
40. [e4] Alok Aggarwal, C. Pandu Rangan: *Algorithms and Computation, 10th International Symposium, ISAAC '99, Chennai, India, December 16-18, 1999, Proceedings. Lecture Notes in Computer Science* *1741, Springer 1999, ISBN 3-540-66916-7 *
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42. [j2] Alok Aggarwal: Optimal Bounds for Finding Maximum on Array of Processors with k Global Buses. IEEE Trans. Computers 35(1): 62-64 (1986)
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