

# Suresh Venkatasubramanian

AI Leader, Bangalore, India

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Summary	Accomplished AI and Data Science professional with a strong background in research, team management, and delivering innovative solutions across multiple domains. Demonstrated success in mentoring and scaling data science teams, fostering cross-functional collaboration, generating business impact and driving strategic initiatives.
Objective	Aspiring to secure a leadership position in the AI domain, utilizing my expertise in data science, research, and team management to develop and implement cutting-edge solutions, mentor teams, and propel organizational success through AI excellence.
Education	PhD, Computer Science (2010), Indian Institute of Science, Bangalore M.S., Computer Science (2001), Indian Institute of Science, Bangalore B.Tech, Instrumentation (1998), Anna University, Chennai
Experience	<ul style="list-style-type: none"><li>□ Sep 2021 – Jan 2023: <b>Senior Manager (AI), Compass India Ltd.</b>, Bangalore, driving R&amp;D and engineering for Search and Recommendations for Compass.com (team size ~15)<ul style="list-style-type: none"><li>🕒 Established cross-functional collaborations across time-zones, enhancing team communication and driving project success</li><li>🕒 Hired, mentored and scaled a team of data scientists and engineers</li><li>🕒 Delivered Search-suggests ranker with <b>MRR (+4%)</b> and <b>query length (–18%)</b> improvements</li><li>🕒 Delivered instant automated Comparative Market Analysis (CMA) to help agents reach a wider customer base</li><li>🕒 Delivered document recommendations for real estate document categorization using the A2I framework, <b>increasing agent productivity by 200%</b></li><li>🕒 Leveraged a knowledge graph of agents and transactions to enhance agent search and recommendation accuracy, leading to more targeted and effective matches for agent discovery</li></ul></li><li>□ Jan 2019 – Sep 2021: <b>Senior Manager (Data Science), Walmart Labs</b>, Bangalore, driving in-grid ad revenue growth for Walmart.com (team size ~15)<ul style="list-style-type: none"><li>🕒 Built and led a data science team, creating a platform for sponsored ads on Walmart.com, generating revenue of <b>\$1.7B (GMV terms)</b> in 2020</li><li>🕒 Led efforts to boost tail-query search-relevance for online-grocery (<b>NDCG +2%</b>)</li><li>🕒 Accelerated data science adoption and best practices as a founding member of the Data Science Council, driving cross-vertical initiatives at the India Development Centre</li></ul></li><li>□ Oct 2016 – Dec 2018: <b>Principal Research Scientist and Manager, Accenture</b>, Bangalore, leading R&amp;D for AI transformation of financial processes (team size ~25)<ul style="list-style-type: none"><li>🕒 Led F&amp;A AI initiatives for Fortune 500 clients, <b>expediting HITL invoice reconciliations</b> by an average of 3 weeks (~30%) and <b>impacting \$700M in annual transactions</b></li><li>🕒 Secured innovative and revenue-generating solutions through the generation of multiple intellectual properties</li></ul></li></ul>

- Apr 2016 – Oct 2016: **Senior Software Engineer, Microsoft**, Beijing, engineering Multimedia Search-Relevance solutions for Bing
  - 🕒 Identified adult intent in image-search keyword recommendations, towards improved content filtering and user experience
  - 🕒 Developed guidelines for content judgment in keyword recommendations, ensuring quality control and user safety
- Jan 2012 – Mar 2016: **Data Scientist, SAP Labs**, Bangalore, R & D for Big Data solutions for telecom; R & D for Financial Time Series and Text Analytics
  - 🕒 Developed margin assurance solutions for a leading Telecom partner in Germany
  - 🕒 Created algorithmic-trading solution for retail investors
  - 🕒 Authored white papers on business potential; Presented results to senior leadership to report progress and obtain buy-ins; Led interactions with the IP team
- Jul 2010 – Dec 2011: **Research Consultant, SAP Labs**, Bangalore, R & D for text analytics in retail domain
  - 🕒 Led research efforts in unstructured text analytics, designing, evaluating, and implementing innovative approaches
  - 🕒 Presented research findings at WWW 2011 conference and served as AI expert for IP interactions
- Jan 2005 – Dec 2011: **Research Associate in the Dept. of Science & Technology & Ministry of Communication and Information Technology**, Govt. of India sponsored projects at Informatics Lab, **Dept. of Computer Science & Automation, IISc, Bangalore**
  - 🕒 Conducted R&D in image analysis, social network analysis, computational cognition, and data mining, presenting findings at international conferences
  - 🕒 Drafted research proposals and technical reports, coordinating with funding agencies to secure support. Managed project staff, eye-tracker facility, and lab infrastructure to ensure successful project execution

## Skills

- Languages: Java, Python, C, C++
- Cloud: AWS, Azure
- Packages: TensorFlow, PyTorch, WEKA, OpenNLP, NLTK
- Big Data: Spark, Hive, COSMOS
- Database: MySQL, SCOPE, SAP HANA, Neo4j