SAGAR KULKARNI

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- Bachelor's degree in Computer Science and Engineering, a Master's degree in Computer Science from California State University, Fullerton, and currently pursuing Ph.D. in Computer Applications at MIT World Peace University
- A passionate and innovative educator, mentor, and researcher with extensive experience in academia and industry, specializing in Artificial Intelligence, Machine Learning, Data Science, and Business Analytics.
- Successfully facilitated interactive learning experiences and hands-on training, mentoring over 300+ students and guiding 100+ industry projects while delivering 10K+ hours of teaching and academic leadership.
- Authored research papers, published patents, and developed innovative solutions in AI, Big Data, and Blockchain, contributing to industry advancements and academic excellence.
- Managed the development of training curriculum; formulated and reviewed training outlines and determined appropriate instructional methodologies and formats

RESEARCH INTERESTS

|Generative AI & Agentic Systems | Prompt Engineering | Machine Learning & Deep Learning | Natural Language Processing | Computer Vision | Big Data Analytics & Visualization | AI in EdTech & HR Analytics | AI/IoT for Healthcare, Agriculture & Smart Mobility | Blockchain & Metaverse |

Patent Published (15)

- **AI-Based Human Resource Management Device (**455542-001**)**
- **AI Enabled Farm Environment Monitoring Device (**461738-001**)**
- **Wearable Health Monitoring Device (**6442660**)**
- AI-Based Human Resource Management Device (455542-001)
- Wearable Health Monitoring Device (6442660)
- Ai Based Face Reading Device (443652-001)
- Artificial Intelligence- Based System for Automated Interviews of Candidates and Method Thereof (202121048612)
- IoT-Based Vehicle Authority and Monitoring System Using Driving License (202321044469)

Book Chapters (7)

- **A Study of a Domain-Specific Approach in Business Using Big Data Analytics and Visualization**. *CRC Press, Apr 2025.*
- **Artificial Intelligence and Big Data Analytics in Digital Gig Finance**. *Springer Nature, Apr 2025.*
- **Beyond the Horizon: AI-Powered Sustainable Mobility in Public Transportation**. *Springer Nature, Jan 2025.*
- **Harnessing Technology for Financial Empowerment: Digitally Driven Financial Inclusion**. *IEEE, Sep 2024.*
- **Artificial Intelligence and Big Data Analytics in Digital Gig Finance**. *CRC Press, Jan 2024.*
- **The Role of Blockchain Technology in the Metaverse Ecosystem**. *IGI Global, Jul 2023.*

Research Papers (3)

- Harnessing technology for financial empowerment: A study on digitally driven financial inclusion (DIO: 10.1109/iSemantic63362.2024.10761999)
- Enhancing Crop Yields with Machine Learning: Opti-mizing Rainfall-Driven Crop Sequencing

Experience

- **Universal Ai University, Karjat: Assistant Professor** June 2025– Present
  Karjat, India

  Key Result Areas #Artificial Intelligence #Machine Learning # Business Analytics # AI in Marketing # AI in HRM #Data Science #Natural Language Processing #Analysis of Algorithms #Generative and Agentic AI #Deep Learning for Psychology #NLP for Psychology #Statistics #Descrete Mathematics
  - BoS Member
  - Paper Setter | Paper Chairman | Paper Evaluation | Project Viva
  - Internship Mentor
  - Led three University automation projects: AI/NLP resume validation and shortlisting system, StudySync TimeCraft, and the AI-Powered Academic Hub.

- **D Y Patil University Ambi, Pune: Assistant Professor** May 2023– May 2025
  Pune, India

  Key Result Areas #Artificial Intelligence #Machine Learning # Business Analytics #Design and Analysis of Algorithms #Data Science #Business Intelligence #Data Analytics #Deep Learning #Natural Language Processing #Neural Networks #Big Data Analytics
  - BoS Member (Curriculum Development BCA -NEP Structure and MCA)
  - Head Academics (BCA & MCA) | University Admission Coordinator | University Website Coordinator
  - Paper Setter | Paper Chairman | Paper Evaluation | Project Viva
  - Internship Mentor

- **MIT-World Peace University** Jul 2018 – May 2023
  Pune, India

  Key Result Areas #Artificial Intelligence #Machine Learning # Business Analytics #Design and Analysis of Algorithms #Data Science #Business Intelligence #Data Analytics #Deep Learning #Natural Language Processing #Neural Networks #Big Data Analytics
  - Curriculum Development MCA Program
  - Paper Setter | Paper Chairman | Paper Evaluation | Project Viva
  - Internship Mentor

- **SIAJ Digital Marketing: Lead Project Manager/Talent Acquisition Specialist** Apr 2017 – Jan 2021
  Pune, India

  Technologies Used: HTML5, CSS3, ASP.Net, C#, PHP, SQL Server, WordPress
  - Managed recruiting function for organization, including sourcing, interviewing, and hiring of candidates
  - Developed and managed internship program, including budget determination, hiring, training and performance evaluations
  - Responsible for budgeting and forecasting, expense reporting, risk management, status reporting, and execution
  - Collaborated with participants to determine product timeline and end-to-end project delivery
  - Provided guidance to team and other program managers

- **Denken Solutions Inc.: SQL/SSIS Developer** Jul 2016 – Feb 2017
  Irvine, California, USA

Technologies Used: HTML5, CSS3, ASP.Net, C#, SQL Server 2008R2/2012

- Involved in the Migration of Databases from SQL Server 2005 and 2008 to SQL Server 2012
- Worked on SSIS Package, DTS Import/Export for transferring data from Database to SQL Server
- Developed SSIS packages for initial data loads and incremental loads using heterogeneous sources as Oracle, SQL and Excel
- Scheduling SSIS packages as per requirements and checking for missing records & update manually if required

- **Orange Consulting LLC: Web developer (Intern)** Jun 2015 – Aug 2015
  Fullerton, California, USA

Technologies Used: HTML5, CSS3, ASP.Net, C#, SQL Server 2012

-Created web application for client using C# and ASP.Net as front end and SQL server 2012 as Back-end
-Performed checks for coding standards and code reviews for the application development
-Created and developed database objects such as tables and stored procedures as per requirements
-Created test cases and tested application manually as well as with automation tools

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Education

- **Doctor of Philosophy (PhD) in Computer Application** Oct 2021 – Present
  MIT-World Peace University Pune, India
- **Master of Science (MS) in Computer Science** Aug 2013 - May 2016
  California State University Fullerton Fullerton, California, USA
- **Bachelor's of Engineering (BE) in Computer Science and Engineering** Aug 2008 - May 2012
  P.R. Patil College of Engineering and Technology Amravati, India

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FDP/Seminars Delivered On

- Building Custom AI-Agents
- Orange: Data Mining
- Data Visualization using Tableau
- AI for Marketing
- AI: Real & Artificial Intelligence
- Technology that predicts your next security fail
- The Future of VR, AR and Self-Driving Car
- Artificial Neural Networks
- Face Detection Using Neural Network
- Machine Learning (Orange)
- Power BI
- Prompt Engineering
- AI for HR
- Mind controlled car using AI
- 5G Technology
- Big Data
- Cloud Storage
- Data Center