

Ritika Singh

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EDUCATION

- **Indian Institute of Technology** Delhi, India
Doctor of Philosophy - Artificial Intelligence ; GPA: 8 *Aug 2021 - July 2026*
Research interest : Cognitive psychology and computational linguistics
Courses completed: *Mathematical Foundations of Computer Technology, Data Mining*
Courses pursuing: *Advanced Machine Learning, Computational Perception and Cognition, Research Writing*
- **Jaypee Institute of Information Technology** Noida, India
Master of Technology - Data Analytics ; GPA: 7.6 *Aug 2017 - July 2019*
Courses: *Parallel and distributed databases, Machine learning and data mining, Cloud based big data systems, Data science programming, Design innovation and incubation, Large scale graph algorithms and analytics, Deep Learning, Empirical research and performance, Information integration and visualisation*
- **Pune Institute of Computer Technology** Pune, India
Bachelor of Engineering - Computer Science *Aug 2013 - July 2017*

SKILLS SUMMARY

- **Languages:** Python, R, C++, JavaScript, SQL, Bash, JAVA
- **Frameworks:** Scikit, NLTK, Torch, TensorFlow, Keras, Django, Flask, NodeJS, Azure ML studio, Amazon ML
- **Tools:** Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite, Android Studio
- **Platforms:** Linux, Web, Windows, AWS, Colab, Alibaba Cloud, IBM Cloud
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management, Business Analytics, Technical Writing, Research

EXPERIENCE

- **School of Artificial Intelligence** Remote
Teaching Assistant - Machine Learning *Aug 2021 - Dec 2021*
- **SRM Institute of Science and Technology** Full-Time
Assistant Professor - Artificial Intelligence *Jan 2021 - Aug 2021*
 - Taught courses in AI, Deep Learning, Python programming, Data Analytics and Professional skills to both undergraduate and graduate students.
 - University representative for Social Media.
 - Headed the alumni relation team, created the website for the same.
 - Judge for Hackathon 2021.
 - Chair panels at professional conferences and present academic papers.
- **Deloitte USI - Risk and Financial Advisory** Full-Time
Solution Delivery Analyst *Aug 2019 - Jan 2021*
 - Obtained hands-on exposure to SAP security components such as ERP Central Component 6.0 (ECC), Business Intelligence (BI), Supply Chain Management (SCM), CRM (Customer Relationship Management).
 - Worked as a part of large-scale projects which include security maintenance, administration and operations for various SAP environments.
 - Experienced in preparing detailed documents and reports while managing complex internal and external data analysis responsibilities.
 - Obtained people and project management skills.
- **Election Commission of India** Jan 2019 - Aug 2019
Data Science and Statistical Expert
 - Performed Statistical analysis and data visualisation for Lok Sabha Election - 2019 Designing data acquisition trials Assessing results and analysing trends and using statistics to make forecasts and to provide projected figures
 - Application of sampling techniques or utilise complete enumeration bases in order to determine and define groups to be surveyed.
 - Application of statistical methodology to complex data and acting in a consultancy capacity Designing and implementing data gathering/management computer systems and software

• Reserve Bank of India, Strategic Research Unit

Data Science Research Associate

Aug 2018 - Jan 2019

- Contributed analytical inputs to the Monetary Policy Committee by investigating weekly trend on Agmarket data, monthly data on IIP Index, Service indicators, PMI index, Unemployment data, Consumer Pyramid Data for the bi-monthly Monetary Policy Statement. Research, document, rate, or select alternatives for Financial Data Analysis algorithms or technologies.
- Monitor developments in the fields of industrial technology, business, finance, and economic theory. Interpret data on price, yield, stability, future investment-risk trends, economic influences, and other factors affecting investment programs.
- Evaluate financial reporting systems, accounting or collection procedures, or investment activities and make recommendations for changes to procedures, operating systems, budgets, or other financial control functions

PROJECTS

- **Lok Sabha Election - 2019 (Atlas and Dashboard):** Conducted an in-depth analysis of elections for overcoming the flaws present in the current system. Parameters were considered to judge the candidates by giving each parameter appropriate weightage. Live streaming data analysis was performed and a dashboard to visually present the findings was developed. Tech: Python, ARIMA Model, LSTM, Selenium, TensorFlow, Tableau, Microsoft Power BI. (April '19)
- **Projects under the Reserve Bank of India:** Rythu bandhu project, Bhavantar Bhugtan Yojana: A scheme with a difference, To examine the relative influence of “reasons for” and “reasons against” adoption of mobile banking (m- banking) among Indian consumers.
- **Android application and web-app development for nirf data:**
- **News Aggregator and Summarization platform:** Project was Sponsored by Hives Online India Pvt. Ltd, Pune. The proposal was to leverage the system as News aggregation and summarization platform.

PUBLICATIONS

- **Research paper: Analysis and Simulation of COVID-19:** International Journal of Innovative Technology and Exploring Engineering (IJITEE) *ISSN: 2278-3075 Volume-10, Issue-7, May 2021*
- **Research paper: Exploratory Data Analysis and Customer Segmentation for Smartphones:** International Journal of Scientific Research in Engineering and Management *Paper ID : IJSREM7577 Volume 05 Issue 04, April 2021*
- **Research paper: Youtube comments sentiment analysis:** International Journal of Scientific Research in Engineering and Management *Paper ID : IJSREM7672 Volume 05 Issue 05, May 2021*
- **Research paper: Electronic Voting System using Blockchain:** International Journal of Scientific Research in Engineering and Management *Paper ID : IJSREM7671 Volume 05 Issue 05, May 2021*

HONORS AND CERTIFICATIONS

- Faculty for Inculcating Universal Human Values in Technical Education - June 2021
- Machine Learning A-Z™: Hands-On Python and R In Data Science
- Complete Guide to TensorFlow for Deep Learning with Python
- Deep Learning A-Z™: Hands-On Artificial Neural Networks
- SAP Security Training
- Tableau 2020 A-Z: Hands-On Tableau Training for Data Science
- Data Science A-Z™: Real-Life Data Science Exercises Included

