

Sheshansh Agrawal

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Experience

- Senior Applied Scientist**, Microsoft Mar 2022 - Present
Leading and deploying dense retrieval techniques across retail advertising products at Microsoft. Proponent of simple, good and robust over fancy. Built techniques generating O(\$100M) in annual revenue.
- Research Engineer II**, Microsoft Research India Aug 2019 - Mar 2022
Built and deployed personalized recommendation and extreme classification techniques.

Education

- B.Tech. (Hons.) in Computer Science and Engineering** 2015-2019
Indian Institute Of Technology Bombay, Mumbai, India CGPA: 9.68/10
Minor : Applied Statistics and Informatics
Department Rank: 3/123

Publications

- **Personalized Retrieval** over Millions of Items **SIGIR 2023**
- **ECLARE**: Extreme classification with label graph correlations **WWW 2021**
- **DECAF**: Deep extreme classification with label features **WSDM 2021**
- **Lexicographic ranking supermartingales**: an efficient approach to termination of probabilistic programs **POPL 2018**

Awards

- **FY21 Q4 Greatness Award**, Microsoft Ads.
- International Olympiads
 - **Silver medal** at International Physics Olympiad, Mumbai, India 2015
 - **Gold medal** at International Olympiad in Astronomy & Astrophysics, Suceava, Romania 2014
 - **Bronze medal** at International Olympiad in Astronomy & Astrophysics, Volos, Greece 2013
 - **Silver medal** at International Astronomy Olympiad, Seoul, South Korea 2012
- **AP (Advanced Performer)** grade in Foundations of Machine Learning, Data Structures and Algorithms, Calculus, Physical Chemistry, Quantum Physics courses.
- **Institute Academic Award**, IIT Bombay 2016
- **All India Rank 4** in JEE Mains 2015 among 1.4 million candidates.

Positions Held

- **General Secretary**, Computer Science and Engineering Association 2018 - 2019
- **Mentorship programmes** ISMP, DAMP 2017 - 2019
- **Batch Representative** 2016 - 2017
- **Teaching Assistant**
Data Analysis & Interpretation Autumn '19, Abstractions & Paradigms for Programming Spring '18, Computer Programming & Utilization Spring '17 and Spring '19, Calculus Autumn '16