

# Ashish Gupta

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## Summary

Experienced ML Engineer with a strong background in building Recommendation Systems and large-scale distributed systems. Seeking new opportunities in ML roles to apply my knowledge and contribute to solving complex problems.

## Education

<b>Master of Science(M.S.), C.S. (Machine Learning Specialization)</b> Georgia Tech, US	Aug 2018 - Mar 2021
<b>Bachelor of Technology (B. Tech.)</b> IIT Roorkee, India	May 2006 - Aug 2011

## Experience

<b>Meta (Facebook)</b> <i>Machine Learning Engineer</i>	Aug 2020 - Present London, UK
<ul style="list-style-type: none"><li>Tech Lead in Meta's AI Innovation team focusing on building modern recommendation systems for Facebook &amp; Instagram Reels and Feed Ranking usecases.</li><li>Developed and implemented user-understanding technologies and ML models to address key challenges in reel ranking and candidate retrieval.</li><li>Created social interaction graph (~3B nodes and ~300B edges), trained and experimented with different architectures of GNNs (GIN, GAT etc.) to understand user behavior and leveraged transfer learning to improve recommendations.</li><li>Successfully achieved a 0.3% increase in FB Reels <i>watch-time(WT)</i>, contributing to 5% of the company's <i>WT</i> goal.</li><li>Experienced in recommendations stack (candidate retrieval &amp; ranking), training and shipping deep learning models (GNN etc.), data pipelines, offline and online evaluations.</li><li>Worked with research intern to leverage representation learning to solve cold start user problem in Recommendation Systems. Published paper to demonstrate that its possible to tackle cold-start problem without meta-learning techniques</li><li>Led a complex cross function heavy ads project for Facebook's ad surfaces. The scope of the change included 6 teams and 20 ad surfaces. The breaking change in the 12 graph-APIs was impacting ~100k external developers (<a href="#">link</a>).</li></ul>	
<b>Flipkart</b> <i>Senior Software Engineer-3</i>	Jul 2017 - Aug 2020 Bengaluru, India
<ul style="list-style-type: none"><li>Leveraged machine learning capabilities to predict customer anxiety in the event of delayed order delivery, and initiate proactive actions to improve customer experience.</li><li>Led a team responsible for the post-order customer experience, including the order confirmation and order details APIs (scale of ~15k peak QPS)</li><li>Redesigned the aggregator service, decreasing API response time to <i>550ms</i> from <i>1200ms</i>, decoupling UI deployment from backend, reducing time-to-market, accommodating new business requirements and supporting AB testing.</li></ul>	
<b>Rokitt(Io-Tahoe/Centrica)</b> <i>Senior Software Engineer</i>	May 2015 - Jul 2017 Bengaluru, India
<ul style="list-style-type: none"><li>Developed an ML classification model for a data-discovery software system for discovering information in data, as well as finding relationships among multiple databases with up to <i>90%+</i> accuracy.</li><li>Contributed to the rapid prototyping, conceptualization, and development of <i>ToFrom</i>, a travel platform that allows users to search, book, and pay for flights and hotels. Was responsible for the the e2e development of <i>flights</i> module.</li></ul>	
<b>MakeMyTrip</b> <i>Senior Software Developer</i>	Dec 2013 - May 2015 Gurgaon, India
<ul style="list-style-type: none"><li>Designed and developed a complete referral application for MakeMyTrip.</li><li>Developed the core of the user-service APIs for user registration, login, personal information.</li></ul>	
<b>Mphasis(hp)</b> <i>Software Engineer</i>	Jun 2011 - Dec 2013 Pune, India

## Publications

- Is Meta-Learning the Right Approach for the Cold-Start Problem in RecSys? (*Submitted to KDD 2023*) [Paper Link](#)

## Technical Skills

- ML, AI, Recommendation Systems, Distributed Systems, pytorch, scikit-learn, data pipelines, python, java