

Venu SATULURI

15+ years of learning and applying ML at the frontier. Strong on ML fundamentals and programming chops. Quick learner.

PERSONAL DATA

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GITHUB: <https://github.com/venusatuluri>

WORK EXPERIENCE

NOV 2022 | Principal Machine Learning Engineer at TWITTER
MAY 2012 | Personalization and Recommendations
During my decade at Twitter, I played a key role in several ground-breaking products and improvements in the space of recommendations and machine learning. During 2013-'16, I co-founded and was lead engineer for **MagicRecs**, a key growth driver for Twitter. In '17, I created **SimClusters**, which enabled a quantum leap in Twitter's ability to model user interests and spin up new recommendations products effortlessly. I was group tech lead for **Interests**, the top company initiative during 2020-'21. I joined as a MLE II in 2012 and held the role of a Principal ML Engineer at the time I left.

MARCH 2012 | Ph.D. Candidate
AUG 2006 | Data Mining Research Lab, The Ohio State University
Did research in graph clustering (a.k.a. community discovery from networks) and similarity search algorithms. My research was published in the top venues of the field such as KDD, SIGMOD, and VLDB.

JUN 2006 | Software Engineer
JUL 2005 | D. E. Shaw India Software

SELECTED CODE

SBF Sparse Binary Factorization, community discovery from billion-node graphs, used in SimClusters.
Analyses A repo with notebooks doing various ML analyses e.g. comparing different Transformer implementations.

SELECTED RESEARCH PUBLICATIONS

KDD 2020 | Simclusters: Community-based representations for heterogeneous recommendations at Twitter
Venu Satuluri, Yao Wu, Xun Zheng et. al.
PVLDB 2014 | Real-time Twitter recommendation: online motif detection in large dynamic graphs
Pankaj Gupta, Venu Satuluri, Ajeet Grewal et. al.
PVLDB 2012 | Bayesian locality sensitive hashing for fast similarity search
Venu Satuluri and Srinivasan Parthasarathy
SIGMOD 2011 | Local graph sparsification for scalable clustering
Venu Satuluri, Srinivasan Parthasarathy, and Yiye Ruan
KDD 2009 | Scalable graph clustering using stochastic flows: applications to community discovery
Venu Satuluri and Srinivasan Parthasarathy

EDUCATION

MAY 2012 | Ph.D. in COMPUTER SCIENCE, **The Ohio State University**
Thesis: "Scalable Clustering for Modern Networks"
MAY 2005 | B.Tech. in COMPUTER SCIENCE
National Institute of Technology Karnataka, India

AWARDS

2013 | ACM SIGKDD Dissertation Awards, *Honorable Mention*
2011 | Outstanding Graduate Research Award
Dept. of Computer Science and Engineering, The Ohio State University