PRABHAT AGARWAL

Stanford, CA 94305

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EDUCATION

Stanford University   *2019-Expected June 2021 — Stanford, CA*
MS in Computer Science
Cum. GPA: 4.1 / 4.0
Relevant Courses: Artificial Intelligence (CS221), Machine Learning with Graphs (CS224W),
ReInformcement Learning (CS234), Natural Language Processing with Deep Learning (CS224N),
Convolutional Neural Network for Visual Recognition (CS231N), Deep MultiTask and Meta Learning* (CS330)

IIT Kharagpur   *2013-2017 — Kharagpur, WB, India*
B. Tech (Hons.) in Computer Science & Engineering
Cum. GPA: 9.93 / 10.0
Relevant Courses: Machine Learning, Information Retrieval, Social Computing
Speech & Natural Language Processing, Deep Learning, Operating Systems, Parallel & Distributed Algorithms

TECHNICAL STRENGTHS

Computer Languages	Java, C/C++, Python, Javascript, Bash, SparkSQL
Frameworks	scikit-learn, Tensorflow, nltk, PyTorch, PyTorch-geometric, PySpark
Others	gdb, Git, asio, Network and Systems programming

PUBLICATIONS

[1] P. Agarwal, A. Sharma, J. Grover, M. Sikka, K. Rudra, and M. Choudhury. I may talk in english but gaali toh hindi mein hi denge: A study of english-hindi code-switching and swearing pattern on social networks. In *2017 9th International Conference on Communication Systems and Networks (COMSNETS)*, pages 554–557. IEEE, 2017. `https://doi.org/10.1109/COMSNETS.2017.7945452`.

EXPERIENCE

Pinterest   Jun 2020 - Sept 2020
Research Intern, Pinterest Labs (Trust & Safety)   *California, US*
· Developed a graph based classification model (GraphSAGE and GAT) to jointly classify user and domains as spam over a graph containing 40M nodes and 240M edges
· Achieved an incremental filtering of 360k weekly spam impressions (3.5% of total impressions) over production models.

Goldman Sachs   Jun 2017 - Aug 2019
Analyst, SecDb Architecture   *Bengaluru, India*
· Led a team of 4 to develop a system to provide a central service for real-time queries on firm's primary trade and risk data, with horizontal scalability, high availability and multi–region deployment.

KEY PROJECTS

Predicting Safety Of Clinical Trials   Oct 2019 - Present
Research Assistant, Dr. Jure Leskovec (Stanford Univeristy)
· Build a knowledge graph of 120k clinical trials by extracting structured info from ClinicalTrails.gov and combining with exisiting biological KBs like drug-protein networks.
· Working on building a graph learning model to predict side effect of a clinical trial treatment given the drug, disease and other characteristics of the tested cohort.

FactRanker: Automatic Ranking Of Check-worthy Claims   Jul 2016 - Apr 2017
B.Tech Thesis, Dr. Pawan Goyal (IIT Kharagpur)
· Curated a dataset of political claims annotated using all major fact-checking media outlets and designed a system FactRanker to rank claims by their check–worthiness using a SVM classifier trained on text (e.g. POS tags, sentiment) and contextual features (e.g. topic, sentence homogeneity) improving the then state–of–the–art (ClaimBuster) by 21.7% in NDCG@100.

Stance Classification Of News Articles   Jan-May 2017
B.Tech Thesis,Dr. Pawan Goyal (IIT Kharagpur)
· Designed a classifier using bidirectional conditional encoding with word-by-word attention (in Tensorflow) to classify if an article agrees, disagrees or is neutral to a given statement or headline and achieved an accuracy of 74.52%, an improvement of 10.1% over the baseline model using text features.