PRABHAT AGARWAL

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EDUCATION

Stanford University   *2019-Expected June 2021 — Stanford, CA*
MS in Computer Science
Relevant Courses: Artificial Intelligence, Machine Learning with Graphs

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
Frameworks	scikit-learn, Tensorflow, nltk, opencv, PyTorch
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

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.
· Enhanced transaction/write controls and conflict meta-data generation in firm's proprietary trade database (in-memory object database developed in C++).

KEY PROJECTS

FactRanker: Automatic Ranking of check-worthy claims   Jul 2016 - Apr 2017
B.Tech Thesis, Dr. Pawan Goyal (IIT Kharagpur)
· Curated a dataset of political debates from the 2016 US Presidential election campaign annotated using all major fact-checking media outlets.
· Designed a system FactRanker to rank claims by their check–worthiness using the score of an SVM classifier trained on text (e.g. POS tags, sentiment, word dependencies) and contextual features (e.g. topic, sentence homogeneity).
· Improved the then state–of–the–art (ClaimBuster) in ranking check–worthy claims 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.
· Achieved an accuracy of 74.52%, an improvement of 10.1% over the baseline model using text features.

Code-switching and swearing behaviour on social media   Jul 2015 - Jan 2016
Dr. Monojit Choudhury (Microsoft Research, India)
· Developed a rule-based classifier (with 72% precision) to detect swears in Romanized Hindi and English tweets using phonetic edit distance (for Romanized Hindi) to account for large spelling variations due to transliteration.
· Studied correlation of topic, gender, and language preferences while swearing.

AWARDS AND ACHIEVEMENTS

Bigyan Sinha Memorial Endowment Prize, 2017: Second best student in order of merit in the B.Tech (Hons.) class of 2017
Institute Silver Medal, 2017: Best student in order of merit in the B.Tech (Hons.) in Computer Science and Engineering class of 2017
Sachinandan Basak Memorial Endowment Prize, 2015: Best National Social Service (a program aimed at developing rural areas near institutes) student volunteer among about 400 students