Alok Thatikunta

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https://alok123t.github.io

EDUCATION

Stony Brook University, New York

Master of Science, Computer Science, Aug'17 - Dec'18

International Institute of Information Technology, Hyderabad, India

Bachelor of Science, Computer Science, Aug'12 - June'17

EXPERIENCE

Microsoft, Hyderabad, India

Software Engineering Intern, May - July, 2016

- Developed an application (in C#) for User Classification and creating Cohorts for Cortana.
- Fast K Means and Hierarchical Agglomerative Clustering was used for scaling to millions of users.

Teaching Assistant

Introduction to Databases, Science 2, IIIT Hyderabad

- Taught MySQL, neo4j and BaseX (XML) database systems for Undergraduate students.
- Head Teaching assistant. Problem setter for Assignments and Lab exams.

PROJECTS

Nationality and Ethnic Analysis *(ongoing)*

- Name analysis in different communities, empirically proving various hypothesis.
- Identification of fake social bots and users followed by them.

Wikipedia Search Engine

- Implemented an efficient search engine (in Python) on entire dump of Wikipedia data.
- Two level Indexing was done for fast search. TF/IDF based method was used for ranking.

Mini SQL Engine

- Built a primitive DBMS (in C++) that can execute basic SQL queries.
- Various optimization like LRU caching, Indexing were done.

Document Citation

- Applied modified version of Page Rank in citation network to mine authoritative information.
- Top k authors, conferences and publications were predicted (in Python).

SKILLS

Languages : C++, Python, XSB-Prolog, C#, SQL, Javascript

ACHIEVEMENTS

- Ranked 82nd, 98th at ACM ICPC Amritapuri Regionals, 2016, 2015.
- Problem Setter at Codecraft, an online programming competition held at Felicity, IIIT-H Annual Fest.
- Won 1st prize in Inter batch Badminton tournament held at IIIT-H.