Alok Thatikunta

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Education

Stony Brook University, New York
Master of Science, Computer Science, Aug'17 - Dec'18 (Expected)

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

Projects

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.

Nationality and Ethnicity Analysis *(ongoing)*

- Analyze nationality, ethnicity distribution of community using only name of a person.
- Fake followers identification of popular users on Facebook.

Salmon Modules for MultiQC *(ongoing)*

- Implemented parser for various modules of Salmon, a quantification tool for RNA-seq reads.
- Generated feature specific plots, heatmap for easier comparison between various samples.

Mini SQL Engine

- Built a primitive DBMS which can compile, optimize and execute SQL queries.
- Performed various optimization such as LRU caching, Paging and Indexing.

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, C#, MySQL, Javascript, XSB-Prolog

Achievements

- Ranked 82nd, 98th at ACM ICPC Asia Amritapuri Regional Finals, 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.