

Technical Skills

Operating Systems	Linux – Ubuntu Windows – Windows XP, Windows Vista, Windows 7
Programming Languages	C, C++, Python, Java
Databases	Basics of MySQL and MongoDB
Web Technologies	HTML, CSS, JavaScript, PHP
Development Environments	GEdit, Eclipse, Code Blocks, Netbeans, ViM, Notepad++, JGrasp, iPython
Graphics Design	Adobe Photoshop CS6, Sony Vegas Pro 10
Document Markup	LaTeX

Projects and Internships

Google Summer of Code – 2013

Tags: Gephi, Legend Module, Java

I've been selected for GSOC for the project "Completing Legend Module" under Gephi Consortium. The project deals with creating APIs for the Legend Module that enables developers to create plugins. The project also involves creating a handful of potentially useful plugins. The users of Gephi can then use these plugins to annotate the rendered Graph.

Approximate All Pair Shortest Path in a Network

Tags: navigation algorithm, human navigation, complex networks, graph theory and algorithms, reinforcement learning

I completed the research project on Complex Networks during the Internship Program at ISI, Chennai and CSE Dept, IIT Madras. This novel algorithm accomplishes the task of way-finding from a source to a destination in an unknown environment. The implementation involved the usage of python libraries such as networkx, matplotlib etc and the basic ideas from reinforcement learning.

Predicting the Order of Arrival of Nodes in a Scale Free Network

Tags: scale free networks, probabilistic prediction, Differential Core Centrality

The development of the algorithm was carried out as a part of the research project on Complex Networks during the Internship Program at ISI, Chennai and CSE Dept, IIT Madras. This novel algorithm aims at predicting the order of arrival of nodes in a scale free network. The implementation involved the usage of python libraries such as networkx, matplotlib etc.

A Generic Recommendation Algorithm

Tags: item similarity based graph, dimensionality reduction, generic, adaptive weight distribution

This project was carried out as my final year project, under the guidance of Dr. Kavi Mahesh. This generic model of a recommendation algorithm is adaptive in nature. It uses graphs to describe relations between various items. The approach can be morphed into a dimensionality reduction technique, a rating prediction system and a link prediction technique for social networks. It was implemented using Qt in the frontend and python at the backend.

Parallel Search Algorithm in Power Law Networks

Tags: navigation algorithm, complex networks, graph theory and algorithms, greedy algorithm

The development of this algorithm was carried out as a part of 6th sem special topic, under the guidance of Dr. Kavi Mahesh. This novel algorithm is aimed at establishing a path between a source and a destination, using a greedy traversal technique. The logic dictates that the algorithm can also be parallelized. It was implemented using python networkx, matplotlib etc.

EezyReport

Tags: report generation, pdflatex, xml, python

This is a tool that was developed to generate reports, specifically for final year projects. It is aimed at reducing the overhead on students and project guides by eradicating the formatting inconsistencies across project reports. It was implemented using python, pdflatex and xml technologies.

Local Trends in Twitter

Tags: Twitter, oAuth, synonym-based ranking

An individual would be more interested in the happenings in his/her immediate neighborhood, in contrast with the relatively global happenings. This hack deduces a local trend for a given twitter handle by analyzing the tweets of his/her followees.

Tags: quantization of boredom level, difference method, noise computation

Research and Publications

- ## Areas of Interest

- ## Educational Qualification

Academic Honors

- ## Accomplishments

- ## Personal Profile

I declare that the above information is true and correct to the best of my knowledge and belief.