Anil Ramakrishna

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Research Interests

Machine Learning, Data Mining, Artificial Intelligence.

EDUCATION

University of Southern California, Los Angeles, CA

Master of Science, Computer Science May 2014

Emphasis: Data Sciences Current GPA: 3.5

Relevant Coursework: Statistical Machine Learning, Data Mining and Statistical Inference, Foundations of Artificial Intelligence

BMS College of Engineering, Bangalore, India

Bachelor of Engineering July 2010

Emphasis: Information Science & Engineering Aggregate %: 80.2/100

TECHNICAL SKILLS

Programming Languages: C, Python, Common Lisp, Perl and Java (beginner), Scripting Languages (BASH, KSH).

Technical Computing: MATLAB, GNU/Octave, LabVIEW (beginner).

Web development: HTML (with CSS), JavaScript (with jQuery, D3, Polymaps), CGI with Perl.

System Administration: GNU/Linux, Red Hat, openSUSE, HP-UX.

RESEARCH PROJECTS

Directed Research II

- Currently working with Prof. Yan Liu on a research project that is trying to improve the label complexity of an Active Learning technique.
- To achieve this improvement, we are evaluating the use of Transfer Learning to "warm start" the active learning algorithm.

Directed Research I

- Developed a web based spatio-temporal data visualization and analysis system for a directed research project under Prof. Rajiv Maheswaran and Prof. Yu-Han Chang of ISI, USC.
- The system was applied to Los Angeles Fire Department's call history data and key inferences were made about its operations.

Bachelor's thesis

- Worked on a research project at the Indian Institute of Science (IISc) in which we were trying to confirm optimality in the foraging behavior of a specific rodent species by simulating the animal's decision strategy using an Artificial Neural Network.
- Parallel Genetic Algorithm (GA) was used to train the Artificial Neural Network by encoding its weights in a fitness function that was optimized by the GA.

PUBLICATIONS

- Anil Ramakrishna, Yu-Han Chang, Rajiv Maheswaran, *An Interactive Web Based Spatio-Temporal Visualization System*, International Symposium on Visual Computing, 2013. [Poster]
- Anil Ramakrishna, *A statistical approach to estimate seasonal crop production in India*, Mining Intelligence and Knowledge Exploration, 2013. [Short Paper]
- Anil Ramakrishna, *Active Learning to reduce the label complexity of classification in census income data*, International Conference on Machine Learning and Computing, 2014. [Oral Presentation]

WORK EXPERIENCE

System Software Engineer July 2010 to June 2012

Hewlett Packard R&D, Bangalore, India

- Worked on the development of two frameworks used for file system validation in HP-UX.

Software Development Intern January 2010 to May 2010

National Instruments R&D, Bangalore, India

- Worked on the development of advanced debugging tools in NI's LabVIEW.