



Romanch Agrawal

Research Scientist at McAfee Labs

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Objective

Collaborate, learn and grow with great minds in Computer Science, in process, create innovative products which solve real-life problems.

Experience

RESEARCH SCIENTIST, MCAFEE LABS; BANGALORE – 2010-PRESENT

- ▶ Lead Researcher & Developer of RAPTOR: A Light-weight Cloud-based Intelligent System for Autonomously Identifying Malicious Programs. Major responsibilities included:
 - ▶ Developing a scalable backend cloud for clustering & classification of programs.
 - ▶ Developing an automation which can daily replicate an average of 40K programs.
 - ▶ Developing an intuitive web interface for reporting & statistics.
- ▶ Filed U.S. Patent for Research & Development of TASER: A System and Method for Signature-less Identification of Malicious Processes. Major responsibilities included:
 - ▶ Writing methods for collecting behavioural features of a process from the system.
 - ▶ Experimenting with various machine learning algorithms to achieve high classification effectiveness.
- ▶ Researched & Developed a library Comparelcon: Method for Identifying Malicious Programs based on Similarity of Icons in executable files.

Education

Uttar Pradesh Technical University – Bachelor of Technology with Honours in Computer Science & Engineering, 2007.

Skills

Data Mining & Machine Learning: Decision trees, Artificial Neural Networks, Support Vector Machines, Clustering & Classification

Big Data Technologies: Hadoop, Map-Reduce, MongoDB

Program Analysis Tools: IDA Pro, OllyDbg

Programming Languages: C, C++, Python, Perl

Database Management Systems: MySQL

Web Technologies & Libraries: JavaScript, D3, jQuery, PHP