

# HARSH GADGIL

Machine Learning Engineer



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opensorceror

## Awards

### Bravo Award (2019)

Bell's highest recognition

Awarded for my contribution to an AI-based SMS spam detection system

### Merit Platinum (x3) +

### Merit Gold (x6) (2017-2020)

Bell's second and third highest recognition, respectively

Awarded for my contribution to several team initiatives & AI projects

## Technical Skills

### Programming

Scale: Not familiar → Very familiar

Scala • Java • Python

JavaScript • SQL •  $\LaTeX$

C • C++ • R

## Education

**MSc., Computer Science** (GPA: 3.7 unweighted)

Specialization: Data Mining

University of Guelph

2015 - 2017 | Guelph, Canada

**BEng., Computer Engineering** (GPA: 4.0 unweighted)

University of Pune

2009 - 2013 | Pune, India

## Experience

April 2017 - Present **Machine Learning Engineer**

Bell

- Core member of technical team for two of Bell's large-scale, flagship AI solutions:
    - **SMS Spam Detection**: Automated detection and blocking of verified SMS spammers on Bell's network
    - **Robocaller Detection** (patent pending): Automated detection and blocking of verified fraudulent robocallers on Bell's network
  - Led development of a patent-pending methodology and implementation to automate privileged operations in a distributed environment, such as a big data environment
  - Presented several talks on Machine Learning and Big Data at university hackathons and Bell internal conferences
  - Conducted interviews for engineering roles, and mentored new hires in data science and functional programming. Introduced a new rigorous interview process for engineering roles, that tests knowledge of Computer Science fundamentals, such as data structures and algorithmic techniques.
- Tools**: JupyterLab, Kubernetes, Kafka, Spark, GitLab CI / CD

Dec 2013 - Apr 2015 **Test Automation Engineer**

Synechron

- Primarily developed test automation libraries using Java and C#
- Led development of a Keyword Driven & Behavior Driven test framework for Microsoft Dynamics CRM. Received an award recognizing this effort.
- Demonstrated that rewriting an in-house test framework for Microsoft Dynamics AX, using an open source library instead of a proprietary one (Coded UI), would help the team save \$4K annually by downgrading Microsoft Visual Studio

## Research

2015 - 2017 **MSc. Candidate, Graduate Research Assistant**

University of Guelph

**Thesis**: Data Integration from Multiple Historical Sources to Study Canadian Casualties of WWI

- Proposed a stepwise deterministic method to integrate noisy datasets without the availability of expertly labeled data. The method performed comparably with a supervised method that incorporated a Support Vector Machine
  - Prepared a longitudinal dataset to enable comprehensive analyses about WWI Canadian society and military, seeding further research
- Tools**: R, Python, scikit-learn, pandas

## Publications

L. Antonie, H. Gadgil, G. Grewal, and K. Inwood, "Historical Data Integration - A Study of WWI Canadian Soldiers," in 2016 IEEE 16th International Conference on Data Mining Workshops (ICDMW), pp. 186-193, IEEE, 2016.

## Patents

1. System and Method For Managing Data Object Creation (Pending)
2. Systems and Methods For Use In Blocking Of Robocall And Scam Phone Numbers (Pending)