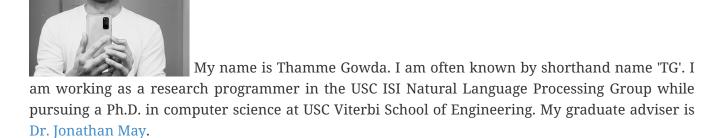
# **Thamme Gowda**

#### About Me:



My current research is focused on neural machine translation (NMT), and broadly natural language processing (NLP) technologies.

### **Education**

- University of Southern California | Viterbi School of Engineering | Los Angeles, CA, USA
  - 2018/08 InProgress | Doctor of Philosophy in Computer Science
  - ∘ 2015/08 2017/05 | Master of Science in Computer Science
- Visvesvaraya Technological University | SJC Institute of Technology | Chikkaballapur, KA, India
- 2008/08 2012/05 | Bachelor of Engineering in Computer Science and Engineering

### **Professional Career**

- USC Information Sciences Institute | Marina del Rey, CA, USA
  - 2018/04 Present | Research Programmer II
  - · 2017/06 2018/03 | Research Programmer
- NASA Jet Propulsion Laboratory | Pasadena, CA, USA
  - 2016/06 2017/05 | Data Scientist (intern)
- USC Data Science Group | Los Angeles, CA, USA
  - 2015/12 2016/05 | Research Assistant
- Datoin | Bengaluru, KA, India
  - ∘ 2014/01 \* | Technical Co-Founder
- SimplyPhi Software Solutions | Bengaluru, KA, India
  - ∘ 2014/01 2015/07 | Senior Software Engineer

### **Publications**

My research career is just warming up. A few publications I have so far are curated by these services along with BibTeX and PDFs links:

- Google Scholar: https://scholar.google.com/citations?user=7Ed3-tMAAAAJ
- DBLP: https://dblp.uni-trier.de/pers/hd/g/Gowda:Thamme
- Semantic Scholar: https://www.semanticscholar.org/author/Thamme-Gowda/145845766

# **Software Engineering**

Solving problems using math and computers is my favourite job to do. I hope someday my work will make the world a better place directly or indirectly. Here is a list of projects to which I have written code.

### rtg: Reader Translator Generator

Neural Machine Translation Toolkit.

- Code: https://github.com/isi-nlp/rtg-xt
- Docs: https://isi-nlp.github.io/rtg/
- Installer: https://pypi.org/project/rtg/

#### mtdata: Machine Translation Data

A tool that locates, downloads, and prepares parallel data for machine translation from many data sources.

- Code: https://github.com/thammegowda/mtdata
- Installer+Docs: https://pypi.org/project/mtdata/

### nlcodec: Natural Language CoDec

A library to do coding-decoding such as Word, Character, and Byte-Pair-Encoding of natural language text.

- Code: https://github.com/isi-nlp/nlcodec/
- Installer+Docs: https://pypi.org/project/nlcodec/

### awkg: Python awk

awk like line-processing tool with python as scripting language.

- Code: https://github.com/thammegowda/awkg
- Installer+Docs: https://pypi.org/project/awkg/

#### virtchar: Virtual Characters

Dialog systems that imitate characters from the popular TV show named F.R.I.E.N.D.S.

- Code: https://github.com/thammegowda/virtchar
- Dataset: https://github.com/thammegowda/dialog-data
- Report and Presentation

### junkdetect: Junk Detector

A tool to detect junk or not-junk text with support for 100 languages.

- Code: https://github.com/thammegowda/junkdetect
- Installer+Docs: https://pypi.org/project/junkdetect/

### sparkler: Spark Crawler

A large scale web crawler on Apache Spark, with Apache Solr backend for crawler database.

- Code: https://github.com/uscdatascience/sparkler
- Docs: https://github.com/USCDataScience/sparkler/wiki/sparkler-0.1

#### **Auto Extractor**

HTML web page clustering tool based on DOM structure and CSS style similarity.

- Code: https://github.com/USCDataScience/autoextractor
- Docs: https://github.com/USCDataScience/autoextractor/wiki
- Paper: https://ieeexplore.ieee.org/abstract/document/7785739

### **Supervising UI**

A simple web UI for labelling images to be used for image recognition.

• Code: https://github.com/USCDataScience/supervising-ui

#### **More Tools**

- CoreNLP + Apache Tika : https://github.com/thammegowda/tika-ner-corenlp
  - Contributed to Apache Tika: https://cwiki.apache.org/confluence/display/TIKA/TikaAndNER
- Keras models deployment on JVM using Deeplearning4J: https://github.com/USCDataScience/

#### dl4j-kerasimport-examples

- Contributed to the Apache Tika: https://github.com/apache/tika/pull/125
- Tensorflow model deployment on JVM sing GRPC: https://github.com/thammegowda/tensorflow-grpc-java
- Image Recognition at large scale using Apache Spark: https://github.com/thammegowda/tika-dl4j-spark-imgrec
- Document Similarity using Apache Spark and Solr: https://github.com/thammegowda/solr-similarity
- Keyboard layout map of OSX for Kannada (my native language): https://github.com/thammegowda/kannada-osx-keylayout

## **Tutorials / Guides**

- Python Best Practices: PDF: https://isi.edu/~tg/notes/Python-Best-Practices-TG-2019.pdf
  - Google Slides
- Slurm 101: https://thammegowda.github.io/slurm101/
- Machine Learning 101 (WIP): https://github.com/thammegowda/ML101
- Unsupervised NMT Summary: https://thammegowda.github.io/summary/nmt/03-unsup/01-unsupervised-nmt.html
- Quantum Optimization Programming using D-WAVE 2X: https://isi.edu/~tg/non-pubs/introquantum-optimization.pdf

### **Online Presence**

- Email: work: tg (at) isi.edu and personal: tgowdan (at) gmail.com
- Micro-blog: Twitter: @thammegowda ⇒ Active and preferred
- Code: Github: @thammegowda
- Books: GoodReads
- Question-Answers: Stackoverflow | Quora
  - Blog: thammegowda.wordpress.com ← Warning: deeply philosophical
  - ∘ Photos: Instagram: @thammegowda | @mycamsaw ← Warning: personal

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