# Thamme Gowda

About Me:


My name is Thamme Gowda. I am often known by shorthand name 'TG'. I am working as a research programmer in the USC ISI Natural Language Processing Group while pursuing a Ph.D. in computer science at USC Viterbi School of Engineering. My graduate adviser is Dr. Jonathan May.

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

- 2012/06 — 2014/01 | 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/intro-quantum-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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