

Ganesh Srinivas

<http://ganesh-srinivas.github.io> | gs401@snu.edu.in

EDUCATION

SHIV NADAR UNIVERSITY

BTECH COMPUTER SCIENCE AND ENGINEERING

Greater Noida, India
August 2013 - May 2017 |
Cumulative GPA: 6.8 / 10.0

UDACITY MACHINE LEARNING NANODEGREE

Expected Dec 2017

SOME COURSEWORK

ENGINEERING

Data Structures + Lab
Signals and Systems + Project
Operating Systems + Lab
Algorithm Design and Analysis + Lab
Organization and Architecture + Lab
Compiler Design + Lab
Databases + Lab
Computer Networks + Labs
Artificial Intelligence + Lab

THEORY

Discrete Mathematics
Single- and Multi-Variable Calculus
Probability and Statistics
Information Theory
Theory of Computation

Informatics and Medicinal Chemistry + Lab
Academic Writing

SKILLS

PROGRAMMING

Very comfortable:
Python • C • bash
Familiar:
Java • MySQL

TOOLS

MOE • git • gdb
Machine Learning:
Scikit-Learn • Theano+Lasagne
• TensorFlow • Keras
Network related:
Wireshark • Mininet • ns-2

EXPERIENCE

VIASAT | SOFTWARE ENGINEER

Jan 2017 - April 2017 (Internship), July 2017 - Present | Chennai, India

- Single-person skunk works projects for anomaly detection and root-cause analysis for distributed systems, log-based error prediction, resume classification, etc.

GOOGLE SUMMER OF CODE - LAUGHTER AUDIO

CLASSIFICATION | OPEN-SOURCE SOFTWARE FOR RED HEN LAB

May 2017 - August 2017 | Mentors: Michael Pacchioli, Vera Tobin

- Deep Learning for laughter detection and categorization (giggle, belly laugh, etc.). Successful transfer learning.

PAPERS WE LOVE CHENNAI | FOUNDED IN MARCH 2017

A meetup group for reading and discussing important Computer Science papers

ACM CHAPTER @ SHIV NADAR UNIVERSITY | PRESIDENT

Nov 2015 - Nov 2016 | Greater Noida, India

- Organized and taught tutorials (Python, bash, Machine Learning, etc.), organized computer science research talks, competitive programming sessions and various other computer science outreach activities on campus.

TENREADS NEWS APP STARTUP | SOFTWARE DEVELOPMENT INTERN

May 2015 - July 2015 | Chennai, India

- News classification (Naive Bayes, Hidden Markov Models) and ranking systems (pushed to production).

PROJECTS AND RESEARCH

DATA ANALYTICS FOR WHAT'S NEXT | New Techniques and cool applications | Oct 2017 - Present

- Refining Ontologies/Datasets by leveraging uncertainty information from deep models.
- Leveraging Snorkel/DeepDive for history and archaeology data, drug repurposing, economic indicators, etc.
- Interdisciplinary collaborations for working on expository and critical writing.

QUERY BY HUMMING PROBLEM - MUSIC INFORMATION

RETRIEVAL | UNDERGRADUATE RESEARCH PROJECT

| June 2016 - April 2017 | Advisor: Dr. N Sukumar, Center for Informatics, Shiv Nadar University

- A feedforward attention-based convolutional neural network was trained to produce embeddings for cover song recognition using a triplet-loss function (source task, transfer learning). It was then used as a feature extractor for hummed queries (target task) and the nearest neighbors algorithm was used to retrieve the song name.

AUDIO FINGERPRINTING SYSTEM (SHAZAM) IMPLEMENTATION

| MUSIC INFORMATION RETRIEVAL PROJECT FOR SIGNALS AND SYSTEMS COURSE

| October 2014 - December 2017

FEATURE SELECTION RESEARCH - INTELLIGENT WATER DROP

METAHEURISTIC Dr. V. K. Jayaraman, Center for Informatics | Shiv Nadar University, Greater Noida | June 2014 - September 2014