

Ganesh Srinivas

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EDUCATION

SHIV NADAR UNIVERSITY

BTECH COMPUTER SCIENCE AND ENGINEERING

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

GEORGIA INSTITUTE OF TECHNOLOGY

ONLINE MASTER OF SCIENCE IN
COMPUTER SCIENCE
January 2019 - Present

SOME COURSEWORK

MS COURSEWORK

Big Data for Healthcare [Reviews]
Intro to Information Security [R]
Graduate Intro to Operating Systems [R]
Machine Learning for Trading [R]
Network Science (in-progress) [R]

SKILLS

PROGRAMMING

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

EXPERIENCE

VIASAT | CHENNAI, INDIA

JULY 2017 - JUNE 2019 | SOFTWARE ENGINEER
JUNE 2019 - JUNE 2020 | SOFTWARE ENGINEER II
JUNE 2020 - PRESENT | SOFTWARE ENGINEER III

- Anomaly Detection and correlations on high-volume telemetry data from an ISP network. Techniques: statistical classifiers, linear models, deep neural networks, frequent pattern mining. Data engineering involved dealing with high-volume Kafka topics, using indexes and table partitions in PostgreSQL databases, etc.
- Research and implementation of internet traffic classifiers for ISP traffic engineering. From inception, I was involved in every aspect of the project: manual and automated data collection, supervised and semi supervised learning algorithms, feature engineering, etc.

GOOGLE SUMMER OF CODE - LAUGHTER AUDIO CLASSIFICATION | OPEN-SOURCE SOFTWARE FOR RED HEN LAB

Summer 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 - ACTIVELY CONTRIBUTED TO TILL JAN 2019

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

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