

# Dhvanan Shah

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## EDUCATION

### UNIVERSITY OF SOUTHERN CALIFORNIA

MS IN COMPUTER SCIENCE

Expected Dec 2017 | Los Angeles, CA

### PES INSTITUTE OF TECHNOLOGY

BE IN COMPUTER SCIENCE

Aug 2012 - May 2016 | Bangalore, India

- GPA: 9.09 / 10

## RESEARCH

### INFORMATION SCIENCES INSTITUTE (ISI)

GRADUATE STUDENT RESEARCHER | ADVISOR: PEDRO SZEKELY

Aug 2016 - Present | Los Angeles, CA

- Working on the Domain-Specific Insight Graphs (DIG) Project that is a domain-specific indexing, search and analysis system.
- Building a tool to detect breaks in the information collection stage of the pipeline.

### INDIAN INSTITUTE OF SCIENCE (IISC)

UNDERGRADUATE RESEARCH ASSISTANT

ADVISORS: DR. YOGESH SIMMHAN AND DR. DINKAR SITARAM

June 2015 - Aug 2016 | Bangalore, India

- As a part of my Undergraduate Thesis worked on Cloud Scheduling Algorithms for Big Data Workloads.
- Developed a Scheduling harness for easy development, deployment and testing of new and advanced scheduling algorithms on OpenStack and a cloud simulator, CloudSim.

## RELEVANT PROJECTS

### DISTRIBUTED DOCUMENT CLUSTERING | RESEARCH PROJECT

ADVISOR: DR. KAVI MAHESH

- Developed a Scalable Machine Learning solution for Distributed Document clustering.
- Clustered different types of cars based on their similarity.
- Used the concept of Collaborative learning between nodes by sharing learned knowledge.

### EDUCATIONAL DATA MINING | RESEARCH PROJECT

ADVISOR: PROF. NITIN PUJARI

- Developed an interactive online education platform that served as a data collection and mining tool.
- Provided an extensive framework for analysis of student interactions for improving the platform.

### VOICE RECOGNITION SYSTEM

COURSE PROJECT | APPLIED MACHINE LEARNING

- Built a supervised Voice Recognition system that could recognize the voices of different speakers in a group discussion.
- Trained using Hidden Markov Models and Neural Networks.

## SKILLS

### PROGRAMMING

Python • C++ • C • Java

JavaScript • PHP • HTML • SQL

### TOOLS

Apache Spark • Apache Hadoop • OpenStack • CloudSim • Octave

## RESEARCH

## INTERESTS

Artificial Intelligence, Distributed Systems, Machine Learning, Cloud Computing

## COURSEWORK

### GRADUATE

Foundations of Artificial Intelligence \*

Analysis of Algorithms \*

\* In Progress

### UNDERGRADUATE

Artificial Intelligence

Applied Machine Learning

Natural Language Processing

Systems

Scalable Systems for Big Data

Big Data

Operating Systems

Fundamentals

Algorithms

Data Structures

Databases

Computer Networks

Theory of Computation

Math

Linear Algebra

Discrete Math

Calculus

### ONLINE COURSES

Introduction to Apache Spark

Big Data Analysis with Apache Spark

Machine Learning

## POSITIONS

Research Assistant, IISc

Co-Leader, Google Students Clus, PES

Team Lead, Ordell Ugo, PES