

# Pradeep Thalasta

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## Education

### University of Southern California, Los Angeles, California

M.S. IN COMPUTER SCIENCE

August. 2016 - May. 2018

Analysis of Algorithms, Foundations of Artificial Intelligence, Applied Natural Language Processing, Database System.

### National Institute of Technology, Karnataka, Surathkal, India

B.TECH. IN INFORMATION TECHNOLOGY

July. 2011 - May. 2015

Data Structures and Algorithms, Data Warehousing And Data Mining, Web Technologies And Applications, Advanced Database Systems, Web Technologies, Web Services, Semantic Web

## Computer Skills

#### LANGUAGES

Java, C, C++, Python, SQL, Shell scripting, HTML, CSS, JavaScript, Cuda

#### APPLICATIONS/Framework

Eclipse, Git, MySQL, Oracle 11g, Spring, Hadoop, Map Reduce, Jenkins, Maven, Hibernate, Cassandra, Redis, Elasticsearch, Kibana, Logstash, RabbitMQ, Apache Kafka

#### Platform and Operating Systems

Amazon Web Services, Google Cloud Platform, Unix, Linux, Mac OSX, Windows

## Experience

### Samsung R&D Institute India-Bangalore

Bangalore, India

SOFTWARE ENGINEER

July. 2015 - July. 2016

- Worked on Server side programming and designed the service architecture as a part of Internet of Things and Smart Assistant Team for **Jifical** application(available on Play Store).
- Implemented MVC design pattern for the server on AWS using different frameworks like Spring MVC, Hibernate, Java, Cassandra, Machine Learning and Natural Language Processing.
- Filed **Patent** Application on Multi-touch gestures for applications on devices with curved edge displays.
- Obtained **Most Promising Idea Award** during intra division Hackathon.

### Samsung R&D Institute India-Bangalore

Bangalore, India

SOFTWARE ENGINEER INTERN

May. 2014 - July. 2014

- Designed and developed an Android based testing application to check the accuracy and correctness of the application's output.
- Involved different APIs and frameworks based on Android platform and Java.
- Automated testing using the designed application and measured the accuracy of the details provided by the applications being tested.

## Projects

### Speech Based Summarisation and Emotion detection

Los Angeles, USA

NATURAL LANGUAGE PROCESSING

March. 2017-April. 2017

- Implemented Speech Based Summarisation and Emotion detection in python for German Language.
- Built a training model based on **Naive Bayes, Support Vector Machines, and Neural Networks** to detect various emotions like Anger, Sadness, Anxiety, Boredom, Neutral, Disgust, and Happiness.
- Used various features like Energy, Fundamental Frequency, Loudness, and Chromograms to train the model and to classify the given audio sample for various emotions.
- Implemented **TextRanking** algorithm to Summarise the content of the audio input.

### Parts of Speech(PoS) Tagging using Hidden Markov Model

Los Angeles, USA

NATURAL LANGUAGE PROCESSING

March. 2017

- Implemented **Hidden Markov Model** to tag Catalan Language corpus.
- Corpus was adapted from the Catalan portion of WikiCorpus v. 1.0
- Implemented the code in python using **Viterbi Decoding Algorithm** to tag the test data
- Obtained an accuracy of 90%

## Sentiment Analysis of Hotel Reviews

Los Angeles, USA

### NATURAL LANGUAGE PROCESSING

January, 2017

- Implemented **Naive Bayes Model** for analysing the reviews in python.
- Implemented word tokeniser using regular expressions to extract meaningful words from the corpus.
- Reviews were classified as truthful positive, fake positive, truthful negative and fake negative.
- Obtained F1 score of 0.94.

## Web Service Discovery and Recommendation

Surathkal, India

### RESEARCHER FOR WEB SERVICE DISCOVERY.

July, 2014 - May, 2015

- Designed and implemented Web Service Discovery and Recommendation to the user.
- Involved skills on **Machine Learning and Natural Language Processing** using Python and MongoDB.
- Enhanced the efficiency and correctness based on clustering and classification of web services.

## A Graph Based Technique to Find Common News Contents From Multiple News Sources

Surathkal, India

### RESEARCHER FOR DATA MINING AND INFORMATION RETRIEVAL

January, 2014 - April, 2014

- Designed and implemented a graph based algorithm to find the common news contents.
- Involved skills on **Natural Language Processing, Machine Learning and Data Mining** using Java, MySQL and web crawlers.
- Improved the correctness of the results using graph based techniques.
- Enhanced and proposed a new method to find common news contents from different sources.

## Honors & Awards

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2016 **Patent**, Samsung R&D Institute India-Bangalore.

Bangalore, India

2016 **Most Promising Idea Award**, Samsung R&D Institute India-Bangalore intra-division Hackathon

Bangalore, India

2016 **1st Place**, Facebook Messenger Bot Challenge

Los Angeles, USA

2014 **6th Place**, Microsoft-Hackon Ethical Hacking Competition (National Level).

Hyderabad, India

## Extracurricular

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### Photography.

#### AMATEUR PHOTOGRAPHER.

Been practicing photography since 2years using Nikon D5300 DSLR.

### Music.

#### LEAD/RHYTHM GUITAR PLAYER.

Have completed Beginners level in playing both Acoustic and Electric guitar.