

# Pradeep Thalasta

2652 Ellendale Place, Apartment 1,  
Los Angeles, California, 90007.

+1(323) 690-6523 | [thalasta@usc.edu](mailto:thalasta@usc.edu) | <https://github.com/prodo56> | <https://www.linkedin.com/in/pradeepthalasta5693>

## Education

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

M.S. IN COMPUTER SCIENCE

August. 2016 - May. 2018

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

B.TECH. IN INFORMATION TECHNOLOGY

CGPA: 8.63

July. 2011 - May. 2015

## Computer Skills

### LANGUAGES

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

### APPLICATIONS

Vi/Vim, Eclipse, Git, VMWare, VirtualBox, MySQL, Oracle 11g, Sublime Text, Cassandra, Redis, Elasticsearch, Kibana, Logstash, Kafka, Microsoft Office.

### OPERATING SYSTEMS

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 the 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.
- Wrote Unit Test cases and Integration Test cases for the application written using JUnit and JMeter.
- Filed a **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

#### STUDENT TRAINEE 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

### Game Intelligence Using Adversarial Search

Los Angeles, California

#### ACADEMIC PROJECT IN ARTIFICIAL INTELLIGENCE.

September 2016

- Designed and Implemented a project on Game Intelligence Using Adversarial Search.
- Designed game based on min-max algorithm and alpha-beta pruning.
- Involved skills in Java, Recursions, Pruning and Search Algorithms.

### Recommendation Engine, Natural Language Processing and Classification.

Los Angeles, California

#### RECOMMENDATION ENGINE USING TEXT ANALYSIS OF USER REVIEW.

September 2016

- Designed and Implemented a project on Recommendation Engine for Amazon Product Dataset.
- Implemented an algorithm for recommendation based on Text analysis of the reviews of the products.
- Implemented Classification Algorithm based on cosine similarity to classify the products based on the reviews.
- Involved skills in python, Data Cleaning, Classification, Text Analysis and Natural Language Processing.

## Inference Engine Using Resolution Algorithm, Artificial Intelligence.

Los Angeles, California

INFERENCE ENGINE USING FIRST ORDER LOGIC.

September 2016

- Designed and Implemented a project on Inference Engine based on Resolution Algorithm.
- Implemented the algorithm by converting the Knowledge Base to CNF.
- Implemented Algorithm can answer the given queries as True or False based on the given Knowledge Base.
- Involved skills in python, Artificial Intelligence, and First Order Logic.
- Implemented the algorithm as a course project CSCI 561: Foundations of Artificial Intelligence.

## Messenger Bot, Artificial Intelligence.

Los Angeles, California

ARTIFICIAL INTELLIGENCE BASED MESSENGER BOT FOR RATE MY PROFESSOR.

September 2016

- Designed and Implemented an Artificial Intelligence based Messenger Bot that gives the rating of a Professor or University using Rate My Professor API.
- Bot was programmed using NodeJS and was deployed on Heroku Cloud Application Platform.
- Implemented Bot can answer queries by giving feedback about the professor given the name of the professor or give the feedback if the query is a name of the University.
- Involved skills in Artificial Intelligence, and NodeJS.
- Secured **1st place** in the Bot Challenge.

## Undergraduate Research, Web Technology and Wireless Sensor Networks

Surathkal, India

RESEARCHER FOR ENERGY EFFICIENT IMAGE COMPRESSION IN MULTIMEDIA WIRELESS SENSOR NETWORKS UNDER

July. 2014 - May. 2015

THE GUIDANCE OF DR. GEETHA V

- Researched on enhancing overall lifetime of the network based on the technique of Region of Interest and scheduling.
- Compared and Enhanced the energy utilisation of the existing compression techniques like SPIHT, JPEG 2000 and JPEG XR.
- Implemented prototype to compress and transmit image data from remote location with minimal consumption of energy using Matlab, C, ns2.
- Enhanced the overall lifetime of the entire network by 30%.

## Web Service Discovery and Recommendation

Surathkal, India

RESEARCHER FOR WEB SERVICE DISCOVERY UNDER THE GUIDANCE OF DR. SOWMYA KAMATH

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 UNDER THE GUIDANCE OF DR. SOWMYA KAMATH

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

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

### 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.