

# KESHAV NAGPAL

Versatile

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Projects: <https://keshavnagpal.github.io>

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## EXPERIENCE

### Innovation Intern

#### Gravity Consulting Pty Ltd.

June 2016 - Aug 2016 Bengaluru

<http://www.gravityconsulting.com.au>

- It was an immense experience for me to work in the innovation department of gravity consulting Pty Ltd. During my internship i was assigned to make several tech. demos and Proof of Concepts for different functionalities.
- Tech. involved but not limited to D3js, Processing, NLP, Adobe Illustrator scripting.

## COURSES

### Python Programming

Learned basic concepts of python language from University of Toronto's online course.

### Django 1.9 Framework

Introductory course of back-end programming using Django framework from Udemy.

### Web design

HTML, CSS, JavaScript and Materialize Framework to implement google's material design in basic web interfaces.

### Processing & P5.js

Learned how to code under processing environment and P5.js by following a tutorial series by Daniel Shiffman.

## EDUCATION

### B.tech Information Technology

#### GURU TEGH BAHADUR INSTITUTE OF TECHNOLOGY

Aug 2013 - ongoing Delhi

%  
74.5 / 100

### Science 12th

#### HANSRAJ SMARAK SR. SEC. SCHOOL (CBSE)

Apr 2012 - Mar 2013 Delhi

%  
81 / 100

### 10th

#### HANSRAJ SMARAK SR. SEC. SCHOOL (CBSE)

Apr 2010 - Mar 2011 Delhi

CGPA  
9.6 / 10

## SKILLS

### Python



### Web Design and Development



### C/C++



### Java



### SQLite



### Data Driven Documents



## AWARDS & HONORS



### Awarded a memento at IIT Delhi

A memento for performing in inspire science camp at IIT Delhi.

## OTHER INTERESTS



### Music



### Human Behaviour



### Theoretical Physics

# PROJECTS

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## Motion Detection

📅 2016

🔗 <https://github.com/keshavnagpal/Motion-Detection>

In this project motion detection is done using live video processing. Any ordinary camera can be used to capture live video stream and then that stream is processed using frame difference method to detect motion.

- This can be integrated with surveillance systems to automatically trigger alarms whenever motion is detected in a live video stream from the security cameras.
- This can also be used in motion tracking which may have many applications in visual effects industry.
- Technologies used in making this project - Java and Processing environment

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## Natural Language Processing

📅 2015 - 2016

🔗 <https://keshavnagpal.github.io/nlp>

Objective of this project was to create a voice enabled user interface where user can perform interactions using voice queries in natural language. Interface will take voice query as input and process that query provided in natural language to show desired outcome based on that query.

- Using NLP user interfaces can be made more friendly and intuitive.
- Computer interactions can be made more human with the use of NLP.

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## Project Showcase

📅 2015 - 2016

🔗 <https://keshavnagpal.github.io>

A project showcase for all my projects which are having web user interface.

- Made using HTML, CSS, JavaScript and Materialize framework.
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