

# NEERAJ KOMURAVALLI

Trainee Decision Scientist at Mu-Sigma  
Bengaluru, Karnataka

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## PERSONAL SUMMARY

Innovative data scientist with an artistic perception of technology and business. Have the ability to play a key role in analyzing problems and come up with creative solutions. A quick learner who can absorb new ideas and can communicate clearly and effectively.

## SKILLSET

Pyhton, R, Git, TensorFlow, Keras

## WORK EXPERIENCE

### Trainee Decision Scientist

**Mu Sigma Inc**, Bengaluru Area, India

September 2015 - Present

MuSigma University trained Decision Science Professional.

Working under MuSigma Innovation and Development Department.

- Oversaw the end to end deployment of an entire solution ( services, codes) for a top Casino chain. This included providing a deep learning solution for "Image Classification" that would help detect chips and cards in a black jack game.
- Worked on building an end to end human detection and tracking pipe line. Used different deep learning algorithms for detection and tracking to make sure we get robust results.
- Worked on building an interactive R shiny stand alone application for Exploratory Data Analysis and Classification techniques.
- I have also tutored new employees and managers on analytical tools such as the Python Programming language.

## ACADEMIC PROJECTS

### Automatically calibrating a projector with feedback camera

To make a simple projector smart using just a camera as a feedback.

The general idea behind the project was that the screen will always not be aligned to the projected and due to this problem the visual will not be perfect so we solved the problem using a camera which observes the initial status and checks it continuously to in case there are problems and then solves it accordingly.

### Design and implementation of braille display

The idea behind this project was to make blind people's life easy by being a platform where they can easily communicate with each other (we could convert whatever we write to braille symbols)

Converting the text to braille was pretty staring forward but the challenging part was to make a system where blind people can touch the system and understand. Our system had solenoids in it and it changed positions(upward and downward motion) as and when some one writes something through the system to communicate.

## ACHIEVEMENTS

- Spot award at MuSigma for being imperative and self sufficient in all of the progress made in Human Motion Detection.
- Secured 1<sup>st</sup> position in project competition SCOE 2015.
- Secured 1<sup>st</sup> position in Sinhgad karandak 2015 Fashion show competition.
- Secured 1<sup>st</sup> position in NICMAR Technikalah 2K15 Fashion show competition.
- Secured 1<sup>st</sup> position in mini project competition SCOE 2014.
- Secured 2<sup>nd</sup> position in project competition (for BE students) EKLAVYA 2014.
- Secured 1<sup>st</sup> position in mini project competition SCOE 2014.
- Selected among top 20 in IET-TFS Student Competition (ideas for social development) organized by Tech for Seva at Cummins College of Engineering in 2013.

## EDUCATION

### Bachelor of Technology, Electronics and Communication Engineering

Sinhgad College Of Enginnering, Pune

2011 – 2015

## **KEY SKILLS AND COMPETENCIES**

- Attention to detail & ability to work in a pressurized time sensitive environment.
- Experience with production and consumption of complex video analytic engagement projects.
- Exposure to computer vision algorithms and deep learning methodology.
- Knowledge of machine learning framework like TensorFlow and coding languages like Python, shell scripting , HTML, CSS and JS.

## **REFERENCES**

– Available on request.