

# Nallagatla Manikanta

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## Area(s) of Interest

- Machine Learning, Image Processing

## Educational Qualification

2013 - 2017	Bachelor of Engineering in Electronics and Communication Engineering
2013 - 2017	Bachelor of Engineering in Electronics and Communication Engineering <b>Indian Institute of Technology, Roorkee</b> CGPA: 9.533/10.00
2012 - 2013	Higher Secondary School Certificate Completion <b>Narayana Junior College, Hyderabad</b> Percentage: 98.5/100
2010 - 2011	Andhra Pradesh State Matriculation Examination <b>Keshava Reddy Public School, Nandyal</b> Percentage: 97.66/100

## Work Experience

July 2018 – Present	<b>Software Development Engineer 2 at Adobe Systems, Bangalore</b>
June 2017 – July 2018	<b>Member of Technical Staff at Adobe Systems, Bangalore</b> Worked on Coresync (Sync solution), in which I took the ownership of network module (GUDE). Contributed to various features like resumable network transfers and GUDE for IOS.
May 2016 – July 2016	<b>Research Intern at Adobe Systems, Bangalore</b> Built a framework that can be used to create a domain specific topical affective lexicon using NLP techniques. Using the Topical lexicon built for Crime and World speech domains, a chat bot is built which can give suggestions in writing an article in the same domain.
May 2015 – July 2015	<b>Research Intern at IIRIT Laboratory, France</b> Developed the interconnection mechanism that guarantees the measurement of transmission time of a network data sent from a Real-time wired network to a wireless node, and vice versa.

## Projects

- **Automatic License Plate Detection using graph cut** [ongoing]  
Working on graph cut based Automatic license plate detection using colour, smoothness and shape features. As a part of this, we are also developing a framework to learn various hyper parameters of the model to detect the license plate.
- **Key phrase based News Event Exploration Engine**  
Implemented a Java based bigdata system “News Event Exploration system for exploration and enrichment” which can be used to get a broad view of news data generated for a user query.
- **Optical Character Recognition using LBP, DCT, Wavelet features** [Github]  
Implemented a python based text recognition system using ensemble of models using Local Binary Patterns, Discrete Cosine Transform and Wavelet features.

## Research Publications

- “BATframe: An Unsupervised Approach for Domain-sensitive Affect Detection”, Kokil Jaidka, Niyati Chhaya, Manikanta Nallagatla, Rahul Wadbude and Sanket Kedia, in 18th International Conference on Computational Linguistics and Intelligent Text Processing, At Budapest, Hungary, Volume: 18 [link]

- "ME2 : Movie review Exploration Engine", Nikita Jain, Nallagatla Manikanta, Achuth Kandikuntta, Deepak Jannarapu, Tella Tarun Kumar, Dhaval in Applications of Cognitive Computing Systems and IBM Watson: 8th IBM Collaborative Academia Research Exchange [\[link\]](#)

## Technical Skills

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Programming : C++, Python, Octave, MySql

## Achievements

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- **Departmental Gold Medal** among 74 students.
- Secured All India Rank 1259 (Percentile: 99.9 ) in the IIT-Joint Entrance Examination 2013
- Secured All India Rank 135 in IIT-Mains Examination 2013 among 0.9 million students.
- Secured State wide 9th position in 12th class among 1.0 million students.
- Secured State wide 3rd position in 11th class among 1.0 million students.
- Secured State wide 10th position in 10th class among 1.28 million students
- Secured percentile score of 99.89 in 12th class, Andhra Pradesh Board, 2013
- Secured All India Rank 108 in EAMCET, Andhra Pradesh entrance examination, 2013

## Relevant Courses

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- Machine Learning Basic Nanodegree [\[cert\]](#), Machine Learning [\[cert\]](#), Object oriented Programming, Data structures, Operating Systems, Data base Management, Computer Architecture and Microprocessor, Computer Networks, Economics, Banking and Finance, Ethics and Self awareness

## Online Presence

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- Linkedin : <https://www.linkedin.com/in/nallagatla-manikanta-20593383/>
- Github : <https://github.com/manikantanallagatla>

## Activities

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- Awarded first prize in C++, Java boot camps in Adobe 2017
- Scrum master 2017
- Awarded first prize in Department Cognizance event Spotlight 2016
- Built a Windows phone app - "Devil Smasher" in 24 hours Microsoft Hackathon code.fun.do 2015
- Active Member of IEEE Special Interest Group 2014 - 2015
- Have been cadet of National cadet Corps for one year and was awarded A+ grade 2013 - 2014
- Have been appreciated as a volunteer in Thomso 2013, Cultural Fest of IIT Roorkee 2013