

# MAMIDI RATNA ABHISHEK

Room# 414, Boys Hostel, IIIT Chittoor, Sri City, A.P - 517588  
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## ABOUT ME

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A self-motivated, hardworking graduate student, enthusiastic to learn new domains in the world of computing. Experience in research areas with good problem solving skills.

## EDUCATION

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Indian Institute of Information Technology SriCity, Chittoor	August 2015 - Present
Department of ECE and <b>Honors in Computer Science</b>	CGPA: 8.6/10
Ascent Junior College, Visakhapatnam	2013 - 2015
Senior Secondary in M.P.C	Percentage: 96.7%
Bhashyam Public School, Tanuku	2012 - 2013
S.S.C	Grade: 9.7

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	Python, C/C++, Java, HTML, CSS, Javascript
<b>Software and Tools</b>	Git
<b>Operating Systems</b>	Ubuntu, Windows, Android, VMWare
<b>Frameworks</b>	TensorFlow, Keras, Django, Dash, Bootstrap
<b>Libraries</b>	Numpy, Scikit-learn, NLTK, Pandas, Matplotlib
<b>Cloud services</b>	Amazon Web Services

## TECHNICAL SKILLS

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Natural Language Processing	Computer Vision
Machine Learning	Full Stack Web Development
Deep Learning	Database Management

## PERSONAL SKILLS

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Project Management	Team work
Leadership and Goal setting	Interpersonal skills

## EXPERIENCE

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<b>Research Student</b> , Undergraduate Honors in NLP, IIIT Sri City	August 2017 - Present
<b>Data science Summer Intern</b> , Monsanto Company, Bangalore	May 2018 - July 2018
<b>Teaching Assistant</b> , IIIT Sri City	August 2016 - May 2018
Data Structures under Dr. Amitava Das	
Digital Electronic Circuits under Dr. Siva Prasad K	
Basic electronic circuits under Dr. Paul Braineard E	
Digital Logic Design under Dr. Siva Prasad K	
<b>Summer Intern</b> , Glosys, Chennai	May 2017 - July 2017

## ACADEMIC ACHIEVEMENTS

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Member of the **Deans list** for all the semesters in the institute till date.  
 Ranked in National Top 2% (amongst 1,400,000 candidates) in JEE Mains 2015  
 Ranked in the State-wise Top 0.4% (amongst 1,000,000 candidates) in State level Engineering competitive Exam (EAMCET)

## RELEVANT COURSES

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C Programming	Information Retrieval and basics of NLP
Data Structures	Computer Vision
Algorithms	Topics in Machine Learning
Computer Organization	Computer Communication Networks
Operating Systems	IT Workshop and IT Systems

## ONLINE COURSES

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- [Machine Learning by Stanford University on Coursera.](#)
- [Neural Networks and Deep Learning by deeplearning.ai on Coursera.](#)
- [Improving Deep NNs: Hyperparameter tuning, Regularization and Optimization by deeplearning.ai.](#)
- [Convolutional Neural Networks by deeplearning.ai on Coursera.](#)
- [Python and Django Full Stack Web Developer Bootcamp by Jose Portilla](#)

## PROJECTS

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**Built a tool to find the most Influential scientists in a given field**    August 2017 - November 2017

- It uses the data from different sources and ranks the authors by considering different types of factors. It also analyzes the data and displays different insights of the authors through visualization. It uses Machine Learning to predict various aspects of authors. [NLP, ML, Data Analytics, Dash]

**Aspect Based Sentimental Analysis Codemix - Research**    January 2018 - Present

- We have collected Twitter codemix data and annotated each word with HI/EN/UN, sentiment and aspect of that tweet. Working on Aspect Identification using NLP - DL methods. [NLP, ML, DL]  
<https://github.com/Abhishekmamidi123/ABSA-Codemix/>
- Exploring different areas in the field of NLP and Deep Learning.  
<https://github.com/Abhishekmamidi123/NLP>

**Neural Artistic Style Transfer**    February 2018 - Present

- A Deep Learning technique which is used to transfer the style of an image to the content image. [Computer Vision, DL]  
<https://github.com/Abhishekmamidi123/Neural-Artistic-Style-Transfer/>  
<https://github.com/Abhishekmamidi123/Computer-Vision>

**Language Modelling, Perplexity and CMI on Codemix data**    August 2017 - November 2017

- Calculated Trigram, Bigram, Unigram perplexities for codemix data. Calculated CMI for each tweet and categorized the data into 10 sets based on the CMI values and found the relation between Perplexity and CMI. [NLP]  
<https://github.com/Abhishekmamidi123/Natural-Language-Processing>

**Deep Learning CNN - AndrewNg course**

September 2017 - November 2017

- Built a DL model for car detection using YOLO Architecture, Face recognition classifier, SIGNS classifier using ResNet Architecture. [Python, Keras, Tensorflow, Numpy]

### **Search Engine - Information Retrieval**

August 2017 - November 2017

- This Search Engine gives the results based on the TF-IDF, phrase queries, cosine similarity techniques. A summary will be displayed for each result using LexRank. The News dataset is preprocessed and stored in the efficient way to display the results in real time. This dataset has nearly 4,00,000 documents. [Python, NLP libraries, Django]

<https://github.com/Abhishekmamidi123/Information-Retrieval>

### **myVillage - Django**

August 2017 - November 2017

- A dynamic Django project targeting farmers for the better visualization of their farms, wells, houses on the map. Used forecasting methods to predict the weather, market prices. A social platform is created where the farmers can post their problems.[Django, Bootstrap, Javascript, ML]

<https://github.com/Abhishekmamidi123/myVillage-Django>

### **Object avoidance Robot with live video streaming**

January 2017 - April 2017

- We developed a robot with the live streaming feature which detects and avoids the objects on its way and it can be controlled from anywhere within the network.[IOT, python, opencv]

## **SOCIAL LINKS**

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Github: <https://github.com/Abhishekmamidi123/>

LinkedIn: <https://www.linkedin.com/in/abhishek-mamidi-a7a982114/>

Blog: <https://abhishekmamidi.wordpress.com/>

Quora: <https://www.quora.com/profile/Abhishek-Mamidi-1>