

Manish Madugula

Room-407 Block-A,Boys-Hostel,IIT Patna,Bihta,Patna,Bihar

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Education

IIT(Indian Institute of Technology)-Patna

B.TECH-ELECTRICAL ENGINEERING

- GPA(4th Semester)-8.42

Patna,Bihar

July, 2014 - PRESENT

Khallikote Junior College

INTERMEDIATE SCIENCE

- Percentile(According to JEE Mains):99.74%

Berhampur,Odisha

2012 - 2014

DAV Public School

HIGH SCHOOL

- 10th CGPA:-10

Berhampur,Odisha

2002 - 2012

Experience

Identification of Voicing Assimilation in children's speech

SPEECH PROCESSING INTERN AT NIT SURATHKAL(UNDER DR.SHASHIDHAR G. KOOLAGUDI)

- Used Dynamic Programming Techniques like DTW(Dynamic time Warping) to test various speech features like Pitch, ZCR, MFCCs formants etc. to classify children's speech.
- Paper got accepted for presentation and publication in INDIACOM - 2017;4th International Conference on Computing for Sustainable Global Development
- links to complete code https://github.com/manish2296lion/Speech_processing-Phonological-processes-

Surathkal,India

May, 2016 - July 2016

Web development Intern at Start-Up

TEKKA TECHNOLOGIES PVT LTD

- Developed a Dynamic Single Page Web application from scratch for an articles aggregator app using AngularJS,integrated Facebook,Twitter api into the app.
- Developed landing page of the website based on Google's material design.
- Scraped various articles using python's Scrapy framework from the internet.
- Carried out market research for initial prototype of the product

Patna-India

Oct-2016-Present

Machine Learning Code Implementation

MACHINE LEARNING AND DATA ANALYSIS

- Hand written Digit Recognition using Artificial neural network from scratch.
- Did a small project on smart rockets using evolutionary algorithm <https://github.com/manish2296lion/Genetic-Algorithm-Smart-Rockets-using-p5.js>
- Used Convolutional Neural Network to classify the images of cats and dogs.
- Participated in kaggle titanic disaster competition and built a classification model using SVM and logistic regression.This task required extensive data processing and Feature Engineering and achieved 80% accuracy on test data.

Patna

Dec 2015 - present

CUDA

COURSE UNDER JOHN OWENS AND DAVID LUEBKE-INTRO TO PARALLEL PROGRAMMING

- Implemented various image processing and sorting algorithms, harnessing the power of GPU.

Patna

August 2016-Present

Course-Work

CORE

- OBJECT ORIENTED PROGRAMMING-JAVA
- DATA STRUCTURES
- Signals and Systems
- Digital Signal Processing
- VLSI
- Control Systems

IIT-Patna

2014-present

MATHEMATICS

- Mathematical Optimization
- Probability and Random Processes
- Linear Algebra
- Complex Analysis
- ODE and PDE

ONLINE

- MIT opencourseware 6006-Introduction to algorithms
- Machine Learning-Andrew-NG
- Introduction to Parallel Programming-John Owens
- Angular 2-pluralsight

Skills

COMPUTER LANGUAGES

- JAVA
- Python
- C
- AngularJS
- Javascript(JQuery)
- HTML5,CSS3
- Matlab,Praat Script
- Git(Version Control),LaTeX
- Verilog HDL

SOFTWARES

- MATLAB
- Jupyter Notebook
- Pyxis Schematic and Layout
- Xilinx ISE
- AUDACITY
- PHOTOSHOP
- AFTER EFFECTS

LANGUAGES

- English
- Hindi
- Telugu
- Odia

Publication

INDIACom-2017; INTERNATIONAL CONFERENCE ON COMPUTING FOR SUSTAINABLE GLOBAL DEVELOPMENT

2017

- Manish Madugula,Pravin Ramteke & Shashidhar G.Koolagudi."Identification of voicing assimilation from children's speech".Accepted to be presented and published in INDIACom-2017 International Conference on Computing for Sustainable Global Development

Achievements

JEE-ADVANCED ALL INDIA RANK(IIT-JEE)

May 2014

- Secured an all India rank -4160

3RD INTERNATIONAL LEVEL SCIENCE TALENT SEARCH EXAM

2008

- Secured 7th Rank in National Level

Extracurricular Activity

Creatives-Coordinator

Patna

ANWESHA-2017 (TECHNO-CULTURAL FESTIVAL OF IIT-PATNA)

March-2016 - present

- After Movie of Anwesha 2016.
- Campus Ambassador Video Anwesha-2017
- Teaser Video Anwesha-2017

Motion Graphics

Patna

VIDEO COMPOSITION AND EDITING

June-2015 - present

- Extensive knowledge of after-effects and photoshop.
- Some of my works-<https://www.youtube.com/watch?v=fF9JMcAgIN4>.