

# MADHU G NADIG

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## EDUCATION

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### **Bachelor of Technology in Computer Science**

August 2014 - May 2018(expected)

PES University, Bengaluru, Karnataka

CGPA: 8.82/10.00

### **CBSE, Class XII**

June 2012 - April 2014

Kendriya Vidyalaya, Hassan, Karnataka. 90%

### **CBSE, Class X**

March 2011 - March 2012

Kendriya Vidyalaya, Hassan, Karnataka. CGPA: 9.8

## SELECTED PROJECTS

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### **Empherical analysis of the Indian political ecosystem as an application of generic textual processing**

May 2016 - Present

*Project Under KAnOE - TEQIP II*

*Mentor: Dr. Kavi Mahesh*

- A cloud-based text analysis platform that enables the procurement, integration, storage, and analysis of large text-based data sets from multiple sources or domains.
- Full implementation of the platform with end-to-end integration between multiple technologies such as Python, nltk, Node.js, Javascript and D3.js. Extensively used Machine learning and implemented custom Machine Learning algorithms.
- Platform successfully applied to the Indian political domain.
- Selected to present in the International Conference in Digital Libraries(ICDL) 2016, was awarded a prize in best paper award category.

### **Distributed columnar key value datastore**

August 2016 - December 2016

*Project as a part of curriculum*

- A demonstration of the implementation of a distributed columnar NoSQL key-value pair based datastore.
- support for multiple nodes, node management, centralized control, replica management and fault tolerance. Built the architecture suitable for 'read once write consistently' type of applications.
- Built the application from scratch with Python and NodeJS.

### **A centralized hyperlocal destination discovery service**

August 2015 - Present

*<http://trawel.co.in>*

- A hyperlocal destination discovery service running on the web. Centralized curated web repository which lets users plan trips to places around their city within minutes.
- Built using NodeJS, ExpressJS, MongoDB, Handlebars and D3.js. Analytics and data discovery done using Java and Python respectively
- End-to-end analytics and live Google Maps support.
- Gets thousands of active hits each month.

### **MediaAnalytics**

August 2016 - December 2016

*Project as a part of the curriculum*

*Mentor: Dr. Gowri Srinivasa*

- Providing relevant techniques and algorithms to human analysts in-order to enable them to draw insights from online news media.
- Applied a human-centric machine learning based generic textual analysis platform to conform to the domain of mass media for effective human-based content monitoring and optimization.
- Prime focus in enabling the human analyst with powerful analysis tools.

**Other projects:** Machine Learning Algorithms from scratch in Python, Parallel Processing, Computer Assembler, Similarity based Text Analysis in Java.

## PUBLICATION

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**Madhu Nadig**, Bhargav K N, Kavi Mahesh ” *Empheral Analysis of Indian political ecosystem as an application of genetic textual processing*” Vol. 2 - Issue 5, International Conference in Digital Libraries (ICDL 2016), ISBN: 978-81-7993-653-5 December 2016

**Madhu G Nadig** ” *Computed Science-to-Economy Conversion for Better Farming and Forestry*” Vol. 4 - Issue 6, International Journal of Research in Computer Science (IJORCS 2015), ISSN: 2249 - 8257 June 2015

## SELECTED AWARDS AND ACHIEVEMENTS

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- Awarded the **Inspiration Award** in Smart India Hackathon - 2017 - **World's Largest Hackathon** - for a project on real time data analytics and intelligence for **Dept. of Defense Production, Ministry of Defense, India.** April 2017
- Selected for publication in **World Digital Library**, an International peer reviewed journal. January 2017
- Awarded a prize in **Best Paper Award** category at **International Conference in Digital Libraries** December 2016
- Represented India as a **Student ambassador to Japan** as a part of JENESYS June 2012
- Awarded the **National Talent Search Examination (NTSE)** scholarship by the **Govt. Of India** 2011
- Won the **National Level Gold Medal**, in abacus speed math competetion August 2008
- Awarded a prize in the **Junior Scientist** category by the **Govt. of Karnataka** September 2013
- Selected to present project at **National Science Congress** December 2011
- Awarded the distinction award by PES University 2014-present

## SELECTED WORK EXPERIENCE

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| <b>Research Internship,</b><br>KAnOE - TEQIP II, PES University          | May 2016 - March 2017  |
| <b>Internship,</b><br>PES Center for Pattern Recognition, PES University | January 2017 - Present |

## SKILLS AND INTERESTS

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| <b>Interests</b> | Machine Learning, Data Visualization, Data Anlytics, Neural Networks, Algorithms, Back-end Programming, NLP, Product Development and Parallel Processing |
| <b>Skill-set</b> | Python, Node.js, Java, C, C++, JavaScript, Algorithms, MapReduce, D3.js, NLP - Python nltk, Machine Learning - sklearn, Data Structures, Linux           |

## RELATED COURSEWORK

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Algorithms, Data Structures, Machine Learning by Andrew Ng(Coursera), Data Analytics, Big Data, Parallel Processing, Text Mining and Analytics(Coursera), Web Technology I and II, Cloud Computing

## MISCELLANEOUS

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**References:** **1.** Dr. Kavi Mahesh, Former Dean Of Research, PES University, Bengaluru. **2.** Dr. Gowri Srinivasa, PESIT-BSC / PES University, Bengaluru.

**Blog:** <http://madhugnadig.com/articles/>