

## Raghavendra Vedula

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CONTACT INFORMATION	Traffic Colony, Jatni, Odisha 752050 vedularaghavendra03@gmail.com	+91 9438417715 vedularaghu.github.io
RESEARCH INTERESTS	Artificial Intelligence, Machine Learning, Computer Vision and Human-Computer-Interaction (HCI)	
EDUCATION	<b>Bachelor of Technology — Computer Science and Engineering</b>  College of Engineering and Technology <i>Bhubaneswar, India</i> Expected 2019 <ul style="list-style-type: none"><li>• Top 10% of the class with a CGPA of 8.76</li></ul> <b>Higher Secondary — Central Board of Secondary Education</b>  Kendriya Vidyalaya Khurda Road <i>Khurda Road, India</i> Summer 2015 <ul style="list-style-type: none"><li>• Topper of the Batch with 92.80%</li><li>• Received Rotary Club's Meritorious Award for being the topper</li></ul>	
WORK EXPERIENCE	<b>Google Summer of Code 2018 — Intern (AOSSIE)</b> May 2018 - August 2018 <ul style="list-style-type: none"><li>• Designed and developed an API Explorer page for <a href="#">CarbonFootprint-API</a></li><li>• Created a portal for the suggestion of carbon emission data and worked on its back-end approval and addition into the existing database.</li><li>• Created an npm package for the CarbonFootprint-API which can be used for getting the carbon emission data.</li><li>• Standardized the API by integrating Swagger.</li><li>• Integrated JEST testing in the entire code base.</li><li>• Got a stipend of 2400 USD in 3 months</li></ul> <b>Mytrah Energy, Hyderabad — Data Engineering Intern</b> Dec 2017 - Jan 2018 <ul style="list-style-type: none"><li>• Enhanced the process of storing the data by shifting it to the cloud based AWS S3 storage and automated this process by using AWS Lambda and python scripts.</li><li>• Created an SQL IDE for querying the data using React JS and AWS Athena.</li><li>• Developed a dashboard using front-end frameworks like React JS for data visualization.</li><li>• Got a stipend of 240 USD in 1 month</li></ul> <b>Indian Railways, Bhubaneswar — Data Analytics Intern</b> June 2017 - July 2017 <ul style="list-style-type: none"><li>• Analyzed the data of employees working in Indian Railways by visualizing the data using Python based libraries like Pandas , Matplotlib etc.</li><li>• Optimized the salaries of employees using the analyzed data by calculating the ratio of the total revenue generated to the number of passengers travelling.</li></ul> <b>Lecturenotes.in, Bhubaneswar — Software Engineering Intern</b> May 2017 - June 2017 <ul style="list-style-type: none"><li>• Designed a search engine using Apache SOLR and Node.js for this class notes based start-up.</li></ul>	

- Implemented dependency injection using Electrolyte ( Lightweight Inversion of Control (IoC) container for Node.js) and added Full-text search feature along with suggestions. Validated input strings using regular expressions.
- Validated input strings using regular expressions.
- Integrated an error logging system with sentry (open source error tracking) integration.

## RESEARCH EXPERIENCE

### Research Intern — Escorts Group

May 2017 to Aug 2018

#### Computer Vision Assisted Autonomous Weeding for Cabbage

*Supervisor: Mr. Nijagun Hiremath, DGM, Escorts Ltd*

- Designed and developed a table-top model to simulate the autonomous weeding process.
- Seed funded 2000 USD from Escorts Group to facilitate research.

## SUBMITTED PUBLICATIONS

1. **Raghavendra Vedula**, Amitash Nanda, Sai Sankar Gochhayat, Asutosh Hota, Rishav Agarwal, K Sanjay Reddy, Sandeep Mahapatra, Keshab Kishor Swain and Siddharth Das, "Computer Vision Assisted Autonomous Intra Row Weeder", *International Conference on Information Technology (ICIT)*, 2018 (Author Notification on 31st August 2018)

## AWARDS

### ISTE Technical Symposium CET Bhubaneswar Chapter

March 2018

- Best paper award among 40 papers from participants from colleges all over the state.
- Received a cash prize of 125 USD.

### I/O Extended, GDG Bhubaneswar

June 2018

- Best start-up idea award among 30 various start-up ideas presented by students across the state.

## UNIVERSITY SERVICE

### Counseling Service — Zairza Technical Society

June 2016 - Present

- Conducted Introductory classes for freshmen/sophomore year students on Linux, JavaScript, Python, computer vision and basic algebra.
- Organized sessions and hackathons to promote emerging practices and technologies in computer science.

### Senior Manager — ED-Cell, CET Bhubaneswar

Nov 2015 - Present

- Conducted various sessions on Group Discussion, Debates, brainstorming start-up ideas.
- Served as the manager of the team of the promotions department during college fests.
- Served as the manager of the team of collecting sponsorships during college fests.

## COMMUNITY SERVICE

### Rajya Puraskar Scout — Bharat Scouts and Guides

Aug 2005 - Aug 2015

- Participated in various state level and national level camps organized by Bharat Scouts and Guides
- Worked for relief teams and disaster management squads during *Cyclone Hudhud* which affected coastal regions of Odisha.
- Organized blood donation camps and several awareness programs in underprivileged areas of Odisha.
- Served as a volunteer in Puri's Rath Yatra Festival (Biggest chariot festival in the country)

	<p><b>Volunteer — Google Developer Group, Bhubaneswar</b>      Sept 2015 - Present</p> <ul style="list-style-type: none"> <li>Organized several workshops in the field of web-development, UI/UX design and basics of machine learning for the students of different colleges in the state.</li> <li>Represented the organization as a speaker to present projects and innovations undertaken by the community members.</li> </ul>
	<p><b>Member — Microsoft Developers Community, Bhubaneswar</b>      Sept 2017 - Present</p> <ul style="list-style-type: none"> <li>Attended various bootcamps (Azure bootcamp), participated in IoT (Internet of things) workshops and attended community seminars on deep learning and artificial intelligence.</li> </ul>
PROJECTS	<p><b>VERIFICARE — Certificate verification using Blockchain system</b></p> <ul style="list-style-type: none"> <li>Node.js based project whic verifies the certificate using the exiting decentralized database of the certificates or Aadhar data.</li> <li>Decentralized information of the data.</li> </ul> <p><b>CET Dimensions — ERP website of CET, Bhubaneswar</b></p> <ul style="list-style-type: none"> <li>Designed and developed a Node.js based ERP website for CET, Bhubaneswar.</li> <li>Internal marks, results, attendance and holidays are features of the website</li> </ul> <p><b>Real Time Position Tracking and Engine Statistics of Buses</b></p> <ul style="list-style-type: none"> <li>Designed and developed a real time position tracking and analysis of engine statistics of the buses of CET, Bhubaneswar.</li> <li>Used Node.js, Socket.io, Redis for the website and Cassandra for data analysis.</li> </ul>
SKILLS AND COMMUNICATION	<p><b>Technical Skills</b></p> <ul style="list-style-type: none"> <li>Programming Languages: <i>C, C++, Python3, JavaScript, BASH</i></li> <li>Web development: <i>HTML, CSS, JQuery, Express Framework, Node.js, Socket.IO, Flask, React JS, React Native</i></li> <li>Work Tools and Frameworks: <i>Tensorflow, Scikit-Learn, L<sup>A</sup>T<sub>E</sub>X , Excel, Git</i></li> <li>Database: <i>MongoDB, MySQL, Redis , Cassandra, Postgres</i></li> </ul> <p><b>Communication Skills</b></p> <ul style="list-style-type: none"> <li>Proficient in English, Hindi, Odia and Telugu (Native).</li> <li>Full Working Proficiency: <i>English (TOEFL Score = )</i></li> </ul>
RELEVANT COURSES	<p><b>Undergraduate courses</b></p> <ul style="list-style-type: none"> <li>Artificial Intelligence, Introduction to Data Structures, Digital Image Processing, Linear Algebra, Discrete Mathematics and Design and Analysis of Algorithms.</li> </ul> <p><b>Online courses</b></p> <ul style="list-style-type: none"> <li>Neural Networks and Deep Learning by deeplearning.ai on Coursera</li> </ul>