

Raghavendra Vedula

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

- 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

Counselling 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 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.

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)

Volunteer — Google Developer Group, Bhubaneswar

Sept 2015 - Present

- 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.
- Represented the organization as a speaker to present projects and innovations undertaken by the community members.

Member — Microsoft Developers Community, Bhubaneswar Sept 2017 - Present

- Attended various bootcamps (Azure bootcamp), participated in IoT (Internet of things) workshops and attended community seminars on deep learning and artificial intelligence.

PROJECTS

VERIFICARE — Certificate verification using Blockchain system

- Node.js based project which verifies the certificate using the existing decentralized database of the certificates or Aadhar data.
- Decentralized information of the data.

CET Dimensions — ERP website of CET, Bhubaneswar

- Designed and developed a Node.js based ERP website for CET, Bhubaneswar.
- Internal marks, results, attendance and holidays are features of the website

Real Time Position Tracking and Engine Statistics of Buses

- Designed and developed a real time position tracking and analysis of engine statistics of the buses of CET, Bhubaneswar.
- Used Node.js, Socket.io, Redis for the website and Cassandra for data analysis.

SKILLS AND COMMUNICATION

Technical Skills

- Programming Languages: *C, C++, Python3, JavaScript, BASH*
- Web development: *HTML, CSS, JQuery, Express Framework, Node.js, Socket.IO, Flask, React JS, React Native*
- Work Tools and Frameworks: *Tensorflow, Scikit-Learn, L^AT_EX, Excel, Git*
- Database: *MongoDB, MySQL, Redis, Cassandra, Postgres*

Communication Skills

- Proficient in English, Hindi, Odia and Telugu (Native).
- Full Working Proficiency: *English (TOEFL Score =)*

RELEVANT COURSES

Undergraduate courses

- Artificial Intelligence, Introduction to Data Structures, Digital Image Processing, Linear Algebra, Discrete Mathematics and Design and Analysis of Algorithms.

Online courses

- Neural Networks and Deep Learning by deeplearning.ai on Coursera