

# Vishal Pallagani

B.Tech - Computer Science and Engineering  
IIIT Naya Raipur

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	IIIT Naya Raipur	8.02 (Current)	2016 - Present
Senior secondary	BIE, Andhra Pradesh	97.3%	2016
Secondary	ICSE board	94.7%	2014

## EXPERIENCE

- **Research Intern at AI Institute, University of South Carolina** *Jan 2020 - Present*  
Creating a question answering NLP model using BioBERT for relation between Cannabis and Depression. Also working on other ongoing projects at the AI Institute.
- **Summer Intern at Kno.e.sis, Wright State University** *May 2019 - Aug 2019*  
Implemented automatic knowledge extraction for Semantic Web of Applications using Jena API.
- **Research Intern at 'IIT (BHU) Varanasi'** *Dec 2018 - Jan 2019*  
Created an image classifier of lethal objects which can be installed in CCTV cameras and alert the security guard using TensorFlow.
- **Embedded Software Developer (IoT) at 'Aviconn Solutions Pvt. Ltd.'** *Dec 2017 - Jan 2018*  
Completed paperwork on a developed efficient home automation system for various home appliances along with automating the LPG gas booking system and monitoring the energy usage.

## PUBLICATIONS

- **IoT Based Smart Home Automation Using Sensor Node** *RAIT IEEE 2018*  
*Himanshu Singh, Vishal Pallagani, Vedant Khandelwal, U. Venkanna*
- **dCrop: A Deep-Learning Based Framework for Accurate Prediction of Diseases of Crops in Smart Agriculture**  
*Vishal Pallagani, Vedant Khandelwal, Bharath Chandra, U. Venkanna, Debanjan Das, Saraju P. Mohanty* *IEEE iSES 2019*

## PROJECTS

- **Precision Agriculture Using Solar Enabled Sensor Node with disease Prediction** *July 2019*  
*Dr. Venkanna U, Assistant Professor, Dept. of CSE, IIIT Naya Raipur*  
Prototype consists of a self made soil moisture sensor which is precise and durable than existing sensor. It can also help in predicting diseases in the crops (if any). The farmer is notified of the same with the help of a mobile app.
- **HapPea - Happiness and Peace measure** *Feb 2019*  
*Dr. Jawahar Surisetty, Advisor to Indian Government*  
Calculates the happiness and peacefulness of a person based on a questionnaire. Also, suggests the user videos and articles to improve his 'HapPea' measure.
- **Campus Charcha** *Nov 2018*  
*Dr. Ankit Choudhary, Assistant Professor, Dept. of CSE, IIIT Naya Raipur*  
A question answer platform developed for the students of IIIT Naya Raipur. The website also helps in conducting polls, reviews, etc.

- **Smart Health ATM**

*Dr. Debanjan Das, Assistant Professor, Dept. of CSE, IIIT Naya Raipur*

*July 2017*

Developed a prototype which can be installed anywhere easily and would send the user's basic health criterion such as pulse, height, weight and temperature to his phone.

- **Cognitive Radio Using GNU Radio and RTL-SDR**

*Nov 2017*

*Dr. Rajarshi Mahapatra, Associate Professor, Dept. of ECE, IIIT Naya Raipur*

Solving the problem of spectrum scarcity by detecting the unutilized spectrum with the help of an energy graph.

## TECHNICAL SKILLS

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- **Programming languages** : C++, Python, Dart, Java
- **Web technologies** : HTML5, CSS3, JavaScript
- **Database management** : MySQL, Django
- **Miscellaneous** : Arduino, Android Programming, Cadence, Flutter
- **Operating system** : Windows, Linux Distros

## POSITIONS OF RESPONSIBILITY

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- UG Student Coordinator and Vice President, Student Activity Center, IIIT Naya Raipur, 2018-19
- Organizer, Techno-Cultural Fest, TechNovate'XIX - IIIT Naya Raipur, March 2019.
- Campus Ambassador, Hult Prize, IIIT Naya Raipur, 2018
- Outlook and Design Team, TEDx Pandri, 2017.

## ACHIEVEMENTS

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- **Agri-Tek, iGKV RABI 2019**, Selected for Training, Top 10 out of 300+ teams.
- **AgriTech, Industry-Academia-Meet, IIIT Naya Raipur 2019**: Runner Up in IoT Project Demo.
- **Tech-Business Idea, IIT Kharagpur, 2016**: University Winner for the idea "Plot your Retirement"

## KEY COURSES TAKEN

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|---|-------------------------------------|
| • Introduction to Programming Languages | • Design and Analysis of Algorithms |
| • Data Structures and Algorithms        | • Internet of Things                |
| • Machine Learning                      | • Artificial Intelligence           |
| • Big Data                              | • Advanced Entrepreneurship         |