

# Vennapusa Indrahas reddy

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## Education:

**2019–2020** Second year Dual Degree *Electrical Engineering*, **Indian Institute of Technology, Bombay**, CPI – 9.29/10.0.( upto second semester ) *with minor in CSE.*

## Scholastic Achievements :

- *2020 AA grade in 6 courses, 3 in first semester and 3 in second semester.*
- *2020 Department position in academics - 7th out of over 70 students*
- *2019 Secured All India Rank 541 in JEE Advanced among 0.16 million contesting candidates.*
- *2019 Obtained 99.946 percentile in JEE Main. among 1.0 million candidates.*
- *2016 Top 10 scorer in 48th National Mathematics Talent Contest.*
- *2016 Secured All India Rank 156 in KWEST Math Olympiad*
- *2015 Secured State rank 131 and International rank 1537 in International Olympiad of Maths.*
- *2015 Achieved National rank - 741 in Unified Cyber Olympiad.*
- *2014 Achieved National rank - 1712 in Unified International English Olympiad.*

## Projects:

### Machine Learning

- **Boardgame review prediction.**
  - *Created a Linear regression model and random forest regressor model to predict the reviews for a board game.*
  - *Both these model has predicted the reviews with more than 90% accuracy.*

### Machine Learning

- **Credit card fraud detection.**
  - *Built an Isolation forest model to predict whether the credit card transaction is genuine or fraudulent.*
  - *The accuracy score of this model is 99.75%*

## Machine Learning

- **Breast Cancer Detection.**
  - *Developed an Support Vector Machine model for detecting whether the person has Breast Cancer or not.*
  - *This model scored 0.95 with F1 score metrics.*

## Databases

- **Artist and venue booking site.**
  - *Programmed the client and the server end of a booking site using flask.*
  - *The application connects to a remote postgres backed database server*

## Web Dev

- **API development and documentation.**
  - *Used Flask backed server to build a trivia API.*
  - *Designed the database schema from scratch and used postgresql as backend database*

## Web Dev

- **Digitally enabled cafe.**
  - *This project is implemented using Flask.*
  - *Display graphics representing the ratios of ingredients in each drink and allow public users to view drink names and graphics.*
  - *Allow the shop managers to create new drinks and edit existing drinks.*

## Web Dev

- **Deployment of Flask app to kubernetes.**
  - *Implemented a Dockerfile for a simple Flask API*
  - *Built and tested the container locally and created an EKS cluster*
  - *Created a CodePipeline pipeline triggered by GitHub checkins*
  - *Create a CodeBuild stage which will build, test, and deploy your code.*

## Web Dev

- **Casting agency app**
  - *This project is implemented using postures as database and Flask as the backend*

- *This app supports a basic casting agency by allowing users to query the database for movies and actors.*
- *There are three different user roles (and related permissions), which are:*
  - *Casting agent: Can view actors and movies.*
  - *Casting director: Can view, add, modify, or delete actors; can view and modify movies.*
  - *Executive producer: Can view, add, modify, or delete actors and movies*

### **Web Dev**

- **Social media Web App in Django.**
  - *Created a social media web application in Django.*
  - *In this application you can post a message, vote a message and form a group with people of alike interests*
  - *Implemented user-authentication features (login, logout, register) from scratch*

### **Skills & Interests:**

- **General :** Databases, Machine Learning, Deep Learning
- **Languages:** Python, C/C++, Java, R programming, HTML, CSS, JavaScript, AngularJS
- **Development:** Web Development (Django and Flask), Android App Development
- **Tools:** MATLAB and Simulink, GNU Octave, Docker hub, AutoCAD

### **Other Academic Achievements :**

- **2019** All India Rank 236 in KVPY among over 50,000 contesting candidates.
- **2019** TSBIE - passing 12th class with 973/1000.
- **2017** CBSE - passing of 10th class with 10.0/10.0 points.

### **Online courses completed:**

- **2020 November-** Machine Learning By Building Projects by Eduonix
- **2020 July** - Nanodegree in Java Web Developer by Udacity
- **2020 July** - Advanced Optimization Techniques and hands-on with MATLAB/SCILAB
- **2020 June-** AngularJS organised by JNTUA College of Engineering Pulivendula and Brain O Vision.
- **2020 June** - Nanodegree in Data Structures and Algorithms by Udacity
- **2020 June** - Nanodegree in Full Stack Web Development by Udacity
- **2020 May** - Python and Django Full Stack Web Developer Bootcamp by Udemy
- **2020 February** - Machine Learning by Coursera and Stanford

- **2020 January** - *Python Basics by Coursera and University of Michigan*
- **2020 January** - *Ethical Hacking Workshop by Techfest IIT Bombay*
- **2019 July** - *An Introduction to Programming Through C++ by Swayam*

**Positions of Responsibility:**

***August 20,2019 - March 16 , 2020***

- *Selected for NSO - Lawn Tennis*

***January 15,2020 - Present***

- *Selected as a member of the IIT Bombay Racing Team.*