



**Sudarshan H V**

Indian Institute of Technology Tirupati, India

[LinkedIn URL](#)

[Portfolio Website](#)



## Education Details

| Program                         | Institute                               | Year | %/CGPA |
|---------------------------------|---|------|--------|
| B.Tech Electrical Engineering   | Indian Institute of Technology Tirupati | 2022 | 9.00   |
| Senior Secondary Education(XII) | Karnataka State Pre-University Board    | 2018 | 92.66  |
| Secondary Education(X)          | ICSE Board                              | 2016 | 96.83  |

## Areas of Interest

- Web Development
- Machine Learning
- Digital Signal Processing

## Technical Proficiency

|                              |   |  |
|------------------------------|---|--|
| <b>Programming Languages</b> | : | C, C++, Python, JavaScript                           |
| <b>Softwares/Tools:</b>      | : | MATLAB, Octave, Tensorflow+Keras, Git (VCS), Verilog |
| <b>Front End:</b>            | : | HTML5, CSS, Bootstrap, ReactJS                       |
| <b>Back End:</b>             | : | NodeJS, PHP, Express.js                              |
| <b>Database:</b>             | : | MySQL, MongoDB                                       |

## Experience

- **Intern at NTT Dimension Data Pvt Ltd (Bengaluru)**  
(Guide : Rahul) [May 2019 - June 2019]
  - Learnt basics of automation using Python and Stackstorm framework. Completed a mini project on the same.
- **Mobile Science Laboratory Project: Purdue University (US) collaboration**  
(Guide : Dr. Madan Mohan Avulapati, Dr. Girish Kumar Rajan) [Sept 2019 - present]
  - Designing and testing Mobile Science Laboratory Kit around schools in Tirupati, to enhance hands on learning in rural and underprivileged communities

## Projects

- **Full-Stack Website Development** [May 2019]
  - **Abstract:** Built a CRUD based, RESTful architecture website using Mongo+Express+NodeJS.
- **SENSEX stock market forecasting using Time Series** [March 2020 - May 2020]
  - **Abstract:** Used MATLAB to create a time series model on ARIMA (Auto Regressive Integrated Moving Average) to predict stock market data
- **AES-128 Bit Encryption using Verilog** [Oct 2019 - Nov 2019]
  - **Abstract:** Completed both sequential and combinational models to create AES-128 bit Encryption software using Verilog.

- **Novel Board Game for Environmental Literacy**

[Jan 2020 - May 2020]

- **Abstract:** Developed a board game prototype, to create awareness on Carbon Footprint and Environmental Literacy.

### Relevant Courses

- Machine Learning by Andrew Ng (Coursera)
- Discrete Mathematics (6.042J, MIT OCW)
- Digital Signal Processing (EE2206)
- Probability and Statistics (MA2023)
- Data Structures and Algorithms (SMA 5503, MIT OCW)
- Modern Web Developer Bootcamp by Colt Steele
- Signals and System (EE2103)
- Linear Algebra (MA2021)

### Achievements

- Progressed to all India finals in the app ideation contest- Earth Matters at Techfest IITB (2019) IIT Bombay.
- Competed in Inter IIT Cultural Meet as part of Debate club, progressed to Quarterfinal in second year since inception of club
- KVPY Fellow (2017, 2018). Place in top 300 after interviews and aptitude tests among 1 lakh students across India.
- KCET Rank 148 among 1.94 lakh students across Karnataka
- NTSE State Rank 17 among 1 lakh students in Karnataka

### Positions of Responsibility

#### Debate Club Core Committee

[July 2019 - present]

- Conducted several debating sessions, events in Tirutsava 2020

#### Tirutsava Web Development Core Committee

[July 2019 - January 2020]

- Responsible for database handling and backend work.

#### Code Club Core Committee Member

[June 2019 - present]

- Conducted regular online coding contests and seminars on programming as part of club activities

#### SPIC MACAY Event Co-ordinator

[April 2019 - June 2019]

- Part of the team responsible for hosting cultural programmes as part of SPIC MACAY. Hosted several esteemed artistes including Grammy award winner Pandit Vishwa Mohan Bhatt

### Extra Curricular activities

- Debating, Quizzing, Table Tennis, Football

### Hobbies and Interests

- Reading Novels (fiction and non-fiction), a Rubik's cube speedcuber .
- Ask me anything about football, I will answer!!