



Sudarshan H V

Bachelor of Technology in Electrical Engineering

Indian Institute of Technology Tirupati, India

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Education Details

Program	Institute	Year	%/CGPA
Electrical Engineering (BTech)	IIT Tirupati	2020	9.0/10
2nd PUC, Karnataka State Board	VVS Sardar Patel PU College	2018	92.66%
Matriculation (10th Grade)	Auden Public School (ICSE)	2016	96.83%

Areas of Interest

- Web Development, Machine Learning, Python and Automation, Software Development, Signal Processing

Technical Proficiency

Programming Languages	: C,C++,Python,JavaScript,Java
Softwares/Tools:	: MATLAB, Octave, Tensorflow+Keras, PyTorch+opencv, Visual Studio Code, Git (VCS), Verilog, TinaTI
Front End:	: HTML5, CSS, Bootstrap, ReactJS
Back End:	: NodeJS, PHP, Express.js
Database:	: 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) [September 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** []
 - **Abstract:** Built a CRUD based, RESTful architecture website using Mongo+Express+NodeJS.
- **SENSEX stock market forecasting using Time Series** []
 - **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** []
 - **Abstract:** Completed both sequential and combinational models to create AES-128 bit Encryption software using Verilog.
- **Novel Board Game for Environmental Literacy** []
 - **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)
- Modern Web Developer Bootcamp by Colt Steele
- Digital Signal Processing (EE2206)
- Probability and Statistics (MA2023)
- Data Structures and Algorithms (SMA 5503, MIT OCW)
- Modern Python Bootcamp by Colt Steele (Udemy)
- ReactJS (Coursera)*
- Signals and System (EE2103)
- Linear Algebra (MA2021)

* To be completed by September 2020

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)

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

Hobbies and Interests

- Table Tennis, Football, Rubik's Cube, Reading novels (fiction and non-fiction),
- Personal Website: <https://sudarshanhv.github.io>