



K Avinash

B.Tech - Instrumentation and Control Engineering

Gender: Male

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Educational Qualification

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020-Present	B.Tech - ICE	NIT, Trichy	8.49
2020	Class XII	Devi Academy Senior Secondary School, Chennai, CBSE	96%
2018	Class X	PSBB Senior Secondary School, Chennai, CBSE	97.2%

Academic Achievements

- Secured **Rank 3** in **International Mathematics Olympiad** at the School level conducted by Science Olympiad Foundation in 2017 and 2018.
- Secured **Rank 5** in **National Science Olympiad** at the School level conducted by Science Olympiad Foundation in 2017.
- Qualified for the 2nd level of the Regional Mathematics Olympiad and the ASSET Talent Search Examination in 2018.x
- Consistent Allrounder Award for excellent academic results from Class 1 to Class 10.

Internship Experience

- Internship training at Indian Institute of Technology, Indore:** *Apr 2022 - Apr 2022*
In-depth reading and understanding of research papers about SDN in IoT, Open flow systems and their working and Buffer Size evaluation, and Dynamic Data flow management and network slicing.
- Summer Internship at Indian Institute of Technology, Hyderabad:** *Jun 2022 - Jul 2022*
Worked on the "Digital Twin of SDN" project – the concept of building a platform to represent the physical SDN network and entities on a virtual plane (digital representation) and running applications that we developed to run on this platform for performing various things and getting contexts. I have assisted the team and understood different concepts of Software Defined Networking through this.

Projects

- Built a portfolio website:** *Feb 2023 - Feb 2023*
In this project, I have built and deployed a portfolio website developed using - HTML, Advanced CSS, and JS. It is a responsive web application specially designed for mobile users where users can download my resume and has a built-in form filling section.
- Built and deployed a Discord Chatbot:** *October 2021*
Created an interactive chatbot in Python that responds to the user's mood by giving motivational quotes as output. It was developed on the REPLIT platform.

- **Design and Fabrication of an E-Bike:** *Jan 2022 - Present*
The project involves building an electronic bike from scratch using a BLDC motor. The prototype is in the final stages of development and shall soon be assembled.
- **Prediction of Gold Prices:**
The association between gold prices and other parameters was studied from a data set by using Random Forest Regressor model, and appropriate bias-variance and confusion placement were obtained. K means clustering algorithm was also used for further insights.

Technical Skills and Certifications

- Programming Languages : C, C++, Python, JavaScript, SQL
- Engineering Software : Matlab, Tina, LTSpice
- Other Software : Microsoft Word, PowerPoint, Excel, Visual Studio, IntelliJ IDEA
- Certifications : Introduction and Intermediate Python - Datacamp
: Basics of Python (University of Michigan - Coursera)
: Data Manipulation with Pandas - Datacamp
: Data Visualization with Matplotlib - Datacamp
: Responsive Web Design - Freecodecamp
: SQL Course - Freecodecamp

Positions of Responsibility

- **Electrical Electronics and Control Researcher, EVER NITT** *Nov 2021 - Present*
Working as researcher at the Electric vehicles and Energy Resources club of NITT and we research about control systems and energy resources needed to power an E Vehicle. Currently involved in the project to design an e Bike.
- **Manager and Head of the Branding team, Media Relations Team, Festember** *May 2021 - Dec 2022*
Bring in the media presence for NITT's annual cultural festival – Festember, by contacting and connecting with managers from various prominent media houses. Was part of the team in 2021 that generated 35 Lakhs INR in the form of deliverables and other kinds for that year's edition.
Was the head of the branding sub team – the team in charge of making sure if all the promised deliverables were met by the college during the cultural festival. The respective branding reports were also sent to the companies right after the fest was over (For the year 2021).
- **Speakers' Liaison, TEDxNITTrichy** *Feb 2021 - Dec 2022*
Identify talk ideas relatable for the local community and curate TEDx Talks for speakers. Curated the TEDxNITT Talk by Dr. Bitasta Das, Professor at IISC, Bangalore in the 2022 edition.

Extracurricular Activities

Debating Activities:

- Have actively taken part in Public Speaking forums and workshops. Was part of the workshop conducted by Mr Sanjay Pinto, Ex NDTV News Correspondent.
- Was part of the School's Debating Society in the year 2018.

Social Activities:

Volunteered to be a scribe for a visually impaired student to write an examination for Tamil Nadu Teachers Training Exam.