

# AVANTIKA MUDUMBAI

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## EXPERIENCE

### SDE Intern at Flipkart

May 2023 - July 2023

### Summer Intern at Cropin

May 2022 - July 2022

Worked on creating a pipeline to collect, normalise and store data from IoT sensors used in agriculture.

### Research Intern at IIIT Bangalore

May 2021 - July 2021

Integrated existing code for the marching cubes algorithm with code to visualise the structures of input meshes in 3D. Implemented the algorithm to generate the contour trees of the iso-surfaces.

### Co - founder & Host of #include <people.h>

July 2020 - January 2021

This is a podcast that mainly focuses on how different people perceive life. We try to bring values, opinions and experiences from different people in an attempt to learn something new. We have over 3000 plays for 10 episodes.

## PROJECTS

### Network Visualisation of IEEE Vispub Data | Python, Data Visualisation

This is a dashboard that uses the VisPub Dataset and analyses the topic similarity and temporal similarities of co-authors of a publication after grouping them into communities.

### Text Analyzer | Python, Apache Pig, React

This is a text processing pipeline that lets the user perform operations like stemming and language detection on an input text in a custom order. This pipeline uses pig scripts to perform the operation by making use of libraries like Stanford Core NLP and OpenNLP tools along with *user-defined functions* to perform the required operation.

### Innershift | React, Springboot

This is a self-care therapy application for users through which they can connect to psychiatrists (optional). This is a mobile application for users available in multiple languages like English, Hindi, Telugu, etc. The doctors will use a desktop application.

### Personal Finance Tracker | MERN stack, MongoDB, Jenkins, DevOps

This is a personal finance tracker which also provides a savings calculator to manage one's finances. This project was built using Dev-Ops principles like CI/CD using Jenkins. The docker containers for the server, client, and database are available on docker hub, making this a platform-independent application.

### Mini Football | NodeJS, OpenGL, ThreeJS

This is a VR simulation of simple 2 player football-like game. In this game, one can carry, dribble and /or kick the ball while attempting to make a goal. The movement of the ball follows the laws of motion and the lighting setup follows the laws of reflection and refraction.

## EDUCATION

### Integrated Masters of Technology, CSE International Institute of Information Technology

August 2019 - Present Bangalore, Karnataka

CGPA: 3.49/4.0

### Senior Secondary Education

#### Fiitjee Junior College

June '17 - March '19 Hyderabad, Telangana

Percentage: 93.6%

## SKILLS

Data Structures Algorithms Problem Solving  
MySQL Python C++ Prolog OCaml  
Git Communication

## ACHIEVEMENTS

- WTEF Scholarship, 2020**  
Women Techmakers Engineering Fellows, Supported by Google
- Microsoft Engage, 2021**  
Mentee in Microsoft Engage
- DESIS Ascend Educare**  
Mentee in the 2022 edition of the program

## ORGANISATIONS

### Core Member of LeanIn club

#### IIIT Bangalore

July 2022 - Present

This club aims to uplift and empower Women in STEM.

### Sports Committee

#### IIIT Bangalore

March 2021 - August 2022

Organised tournaments for various sports like Basketball, Badminton and Volleyball.

## LANGUAGES

English  
Hindi  
Marathi  
Telugu



## RELEVANT COURSES

Design and Analysis of Algorithms DSA  
Database Systems Computer Graphics  
Operating Systems Software Testing  
Data Visualisation NoSQL Systems  
Software Production Engineering