

Avinash Kumar

Indian Institute of Technology Goa

Fourth Year **Undergraduate, Computer Science and Engineering**

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Education

BTech, Computer Science and Engineering: Indian Institute of Technology Goa	CGPA: 6.42/10	2018 - PRESENT
Class 12, Bihar Secondary Education Board, Laloo Mandal College	Aggregate: 73 %	2017 - 2018

Projects

ELMS System: [Aug.2021-Present]

- Technology: **React.js, Django, WebSockets, SQLite, MaterialUI, JWT**
- Developing a Web Application for Leave Management for an organization
- ELMS frontend is built on React Library and Material UI
- This system can automate the acceptance and processing of leave applications
- Used WebSockets and Django Channels for Live Updates between Dashboards.

DSA Visualization: [March. 2021 – May 2021]

- Technology: **React.js, JSX, D3.js**
- Developing a platform where we can visualize the concepts used by complex algorithms
- Link to the webapp: [link](#)

2D Platform based Game : [Nov. 2020-Dec 2020]

- Technology: **HTML, CSS, Javascript**
- Developed a Platform based game using vanilla Javascript, and HTML, CSS.
- Deployed and Hosted on web using Netlify [here](#)

Implemented Clustering Algorithms: [July 2020-Aug 2020]

- **Group Project** of team size 3 including me, led by me, guided by Dr. Satyanath Bhat
- Implemented **DBSCAN, HIERARCHICAL, KMEANS** Clustering Algorithms from scratch
- Also included visualization of these algorithms.
- Link to the Github Repo: [link](#)

Human Activity Recognition: [June.2020-July 2020]

- Technology: **Machine Learning, Python (Keras, Pandas, Numpy)**
- **Classification of videos**, Dataset used is **20BN-something-something v2**
- At first, frames were extracted from the video dataset and then it was splitted into Training, Testing, and Validation sets. After this they are fetched into the model.
- The model used consisted of Time Distributed ResNet50, Time Distributed Flatten, and then on top of that LSTM, Dense, Dropout, Dense layers were applied.

Skills

Programming Skills:	C, C++, Python, Java (Little Knowledge)
Web Development Skills:	HTML, CSS, JavaScript, Bootstrap, React, Redux, Django
Electrical Software Skills:	VHDL
Operating Systems:	Windows, Linux
IDE:	Visual Studio Code, Emacs, Notepad++
Relevant Coursework:	Data Structures and Algorithms,, Software Systems, Discrete Structures, Computer Networks, Automata Theory, Computer Architecture, Operating Systems, Artificial Intelligence, Foundations in Machine Learning

Achievements

- Got third place in Coding Event (POKETHON)
- CODECHEF International Coding Marathon 2021 (**Global Rank 182**)