



INDIAN INSTITUTE  
OF TECHNOLOGY  
PALAKKAD

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## CAREER OBJECTIVE

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*My career objective is to integrate my technical expertise in computer science with proficient management skills within a dynamic company. I am committed to continuously advancing my knowledge and capabilities while actively pursuing challenging technical projects. Concurrently, I strive to cultivate effective leadership qualities, foster collaboration in the workplace, and drive innovation. By contributing value to the company and facilitating personal and professional growth for myself and my colleagues, I aim to have a significant impact in the field of computer science.*

## EDUCATION

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Degree/Certificate	Institute/Board	CGPA / Percentage	Year
B.Tech (Computer Science and Engineering)	IIT, Palakkad	8.18 (Current)	2020-Present
Class XII	HMYHSS MANJERI	99%	2019
Class X	SOHS AREACODE	100%	2017

## TECHNICAL SKILLS

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- **C Language**  
*Intermediate Level*
- **Neural Networking and Deep Learning**  
*Coursera Specialization Course*
- **Big Data**
- **GODOT Game Dev**  
*Beginner Level*
- **Unity Game Dev**  
*Beginner Level*
- **C# Programming**  
*Intermediate Level*
- **Elastic Search**
- **Shell Scripting**
- **React**
- **Map Reduce**
- **Apache Spark Streaming**

- **Hadoop**
- **PostgreSQL**
- **Docker**
- **Streamlit**
- **REST API**
- **Neural network**  
*CNN, RNN, LSTM*
- **Yolo**
- **SSH client**
- **NoSQL**
- **Apache Spark**
- **Software as a Service (SaaS)**
- **HPC**  
*High performance computing*
- **Java Script**
- **CSS**
- **HTML**
- **Node.js**
- **PBS Workload manager**
- **SQL**
- **SLURM Workload manager**
- **Remote server access**
- **Python**  
*Intermediate Level*

- **Java**  
*Intermediate Level*
- **C++ Programming**  
*Beginner Level*
- **Type script**

## WORK EXPERIENCE

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- **Full stack dev intern at Siemens** **May 2023 to Aug 2023**  
Siemens  
*Technical Intern at Siemens. Projects included AI-ML model training with Tensorflow and Pytorch, data processing, Frontend(Angular, React), API design(Open API, Fast API)*
- **Project Intern as System Admin for HPC for department cluster** **Dec 2022 to Apr 2023**  
ICSR -IIT Palakkad  
*ICSR is the CENTRE FOR INDUSTRY COLLABORATION AND SPONSERED RESEARCH at IIT PALAKKAD. My responsibilities as a project intern included the following, but not limited to. Settings up and maintaining department cluster for computation and simulation of various molecules, elements, and materials. And setting up of various packages, libraries and other requirements and utilities required for processes, setting up PBS and SLURM job schedulers and writing job scripts for using various packages for simulation, computation etc in PBS and SLURM job schedulers and workload managers to be used in High Performance Computing Facilities.*

## PROJECTS

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- **eCommerce store website with backend exclusively for footwear** **Jan 2023 to May 2023**  
Dr Koninika Pal, Dr Saheli Badra  
Lab project  
*Designed database schema, and implemented backend Database and front end for the eCommerce store exclusively for footwear, as part of course project for DBMS course. And developed a Front end for the project.*
- **Source to source compiler** **Jan 2023 to May 2023**  
Dr Unnikrishnan  
Lab project  
*Made a source to source compiler for a language to convert to C. Did lexical analysis, tokenization using Lex and Yacc*
- **Vehicle Recognition with sound (Neural network model training data collection, data preprocessing)** **Jun 2022 to Nov 2022**  
Dr Sabarimalai Manikantan  
OELP  
*Training a neural network model for vehicle recognition by identifying them with sound features. Initially, we collected data of engine notes of 3 classes of vehicles, then did preprocessing by trimming and converting them into mel spectrum. Then the model was trained over this data, Which gave us 97+% accuracy. This kind of model will be very helpful in low visibility conditions, for identifying vehicle types, and even manufacturers and engine type.*
- **Information retrieval: Search engine model on given data corpus** **Jun 2022 to Dec 2022**  
Dr Koninika Pal  
Course project  
*Designed a front end for a Search engine, incorporated it with the backend APIs for passing query structure, retrieving results and displaying it. Data corpus was generated by web scraping Wikipedia, and the backend was designed using Elastic search, which is the most widely used backend for data retrieval in the industry.*

*Query structure, querying methods, query weights, data retrieval, and methods for ranking retrieved data etc where implemented by us in this, and we required a variety of ranking methods.*

- **Econometric Term Project**

**Jan 2023 to May 2023**

Dr Amrita Roy

Course project

*Training Model on Available Socio-Economic Data, Prediction with this model, Analyzing data, visualization  
Examining influence of each factors on the the prediction and accuracy of the prediction*

## ELECTIVE COURSES

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- Foundations of Data science and Machine Learning
- Big Data Lab
- Model checking
- Information Retrieval (IR)
- Computational Complexity
- MA2030 : Algebra
- Introduction to Language and Society
- Econometrics
- HS2031 : Principles of Economics
- Media, Identity and Self
- HS2302 : Introduction to Language and Society

## POSITIONS OF RESPONSIBILITY

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- **General secretary Academic Affairs**

*Working as General Secretary Academic Affairs, in Student affairs council (SAC) of Indian institute of technology Palakkad. It is students representative position to represent the whole institute community in academic related matters and, to plan and execute various activities and conclaves including the IAC (Industry Academia Conclave), where 50+ industries and Academia delegates become part of, and activities of institute career development cell. Representing and handling all matters related to these in institutions senate meeting, BoS meetings and all other higher councils and meetings. The selection was done through elections where 12 hundred students of the institute were the voters.*

- **Department coordinator for CS and DS departments in INDUSTRY ACADEMIA CON-CLAVE at IIT PALAKKAD**

*IAC is the prime conclave of IIT PALAKKAD for collaboration between Academia and Industry and for Knowledge sharing between various industries, academia and IIT PALAKKAD. I was the department coordinator for the event held in 2022 August 13 for CS and DS departments, which required immense management and preparations. Responsibility includes contacting industry and academia delegates for attending the event to represent their organisations, and inviting talks in the event, coordination of department events and activities for the event, management of Travel and accommodation for all 50+ delegates attended the event, and many more.*

- **Class Rep - Sem 6**

- **Class Rep - Sem 5**

- **Yacc - Club Associate**

*YACC Yet Another Coding Club Serving as club Associate @ Yacc - yet another coding club, the coding club of IIT PALAKKAD*

## EXTRA CURRICULAR ACTIVITIES

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- **ACM Workshop Training Volunteer**  
*Volunteer for workshops and Training conduted by ACM India - Association for Computing Machinery*
- **YACC Member**  
*Member of IITPKD coding club*
- **DAC Member**  
*Member of IITPKD Data Analytics club*
- **Language Proficiency**  
*HindiHindi Limited working proficiency*
- **Language Proficeincy**  
*ArabicArabic Limited working proficiency,*
- **Language Proficiency**  
*EnglishEnglish Professional working proficiency*
- **NSS Volunteer**  
*Active volunteer of NSS IITPKD*
- **Novare club member**  
*Member of Novare-Travel club of IIT Palakkad*
- **Football**  
*Football enthusiast*