



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	M.TECH Dual Degree 5Y	IIT Kharagpur	6.13 / 10
2015	Intermediate Examination	Andhra Pradesh State Board	94%
2012	Secondary School Examination	Andhra Pradesh State Board	9.5 / 10

## COURSEWORK INFORMATION

**Electronics Department** : • Digital Electronic Circuits • Microcontrollers and Embedded Systems • Digital image Processing • Embedded Systems

**Computer Science Department** : • Programming and Data Structures • Data Structures and Object Representation • Machine intelligence and expert systems • Introduction to Internet

**Other courses** : • Calculus • Linear algebra • Matrix algebra • Probability and stochastic processes

## INTERNSHIPS

### Creation of ChatBot to Automate Part Of Global Peoplesoft Support (L0 activities ) at ITFORMULA1 ITSolutions Pvt.ltd

Automated the most frequently requested L0-level PeopleSoft actions for trivial problems by building a Decision Tree based ChatBot using Django and Rest API to decrease the monotonous work and increase productivity of Tech. Support division. The ChatBot also performs actions on JIRA , a system where incidents are raised and the status is tracked . The ChatBot was built with the Capacity to store queries which can be used as a data to train a Machine Learning Algorithm.

## CERTIFICATIONS

### Python and Django Full Stack Web Developer Bootcamp

~ Udemy

Learnt how to use HTML to create website content , how to use CSS to create beautifully styled sites , how to take advantage of Bootstrap to quickly style sites , how to use Javascript to interact with sites on the Front-End , how to use Django as a back end for the websites

### Data Structures and Algorithms :

~ Udemy

•Learnt from basic to advanced algorithmic problems in C++ that range a variety of data structures that include Basic DS , Dynamic Arrays and Amortized Analysis , Priority queues and disjoint sets , Hash tables , Binary trees , graphs and Algorithms include Time and Space analysis , Sorting Techniques , Searching , Greedy Algorithms , Dijkstra's Algorithm , Bellman Ford Algorithm , Shortest Path in DAGs , Dynamic programming , Matrix Chian Multiplication gave me an insight on how powerful and time efficient algorithms can be while managing huge data .

## INTERNSHIPS AND PROJECTS

### ARTIFICIAL INTELLIGENCE PROJECT : User Authentication By Training And Testing ARTIFICIAL NEURAL NETWORK Classifier By The Neutral , Happy and Sad Mood Data.

Behavioural authentication constantly monitors the natural behaviour of an authenticated user by analysing keystroke , mouse movements , finger pressure , swipe patterns , hold time and latencies etc., Creates a unique user template on each device.

Once the model is trained , it is used to evaluate users current behaviour and determine the TRUST SCORE. The score is used to flag any potential fraud and drive appropriate security policy action

### IMAGE PROCESSING LAB PROJECT : A Fast Image Dehazing Algorithm Using Morphological Reconstruction in C++

Outdoor images are used in number of applications such as surveillance, remote sensing and autonomous navigation . The greatest issue with these images is effect of environmental pollution : haze, smog, for which causes degradation to the image.

• Algorithms such as Dark Chanel prior , Independent component analysis , Morphological reconstruction are used in obtaining Haze free images

### Hardware Implementation of CORDIC algorithm

• Calculated the sine and cosine functions to a precision of 16 decimal places , simulated using ModelSim simulation software, synthesized using Xilinx ISE design suite

• Implemented design in a pipelined fashion that resulted in faster execution of algorithm for real time applications

## SKILLS AND EXPERTISE

**Programming Languages** : C,C++,JavaScript,Python,HTML,CSS

**Technical Competencies** : Data structures implementation , OOPS , Design and analysis of algorithms

## EXTRA CURRICULAR ACTIVITIES

Member of Patel Hall's Tennis Team that stood 4th place at the INTER-HALL Competition 2018-19.

Member of Gold winning NSS unit at the annual NSS camp.