Ventrapati Pooja

ventrapatipooja@gmail.com
ee21btech11059@iith.ac.in
7075212039

Academic Details

Year	Degree	Institute	CGPA/Marks(%)
2025	B.Tech Electrical Engineering	IIT Hyderabad	7.91
2021	XII (Andhra Pradesh State Board of Intermediate Education)	Sri Chaitanya Junior College	98%
2019	X (Andhra Pradesh State Board of Secondary Education)	Sri Chaitanya High School	10

Scholastic Achievements

- Successfully cleared both Stage 1 and Stage 2 of NTSE and attained scholarship.

Positions of Responsibility

- Buddy in the Inbound Team at IR Cell — Aug'22-May'23

Skills

Proficient Languages: C,C++, Java, python basics
ML skills: numpy, pandas, SciPy, scikit-learn, matplotlib, Keras, Tensorflow
Web Development Tools: HTML, CSS, and Javascript basics
Coding environments like:Visual Studio code,Juptyer Notebooks,Google Collab.
Tools: Github,Latex,Matlab,Arduino,LT Spice,Solid Edge , MySQL ,Flask
Data Structures and Algorithms, OOPs
Good Understanding in OS and DBMS.
familiar with BI tools like Tableau, Power BI.
Excellent in handling Microsoft Office tools like Excel , PowerPoint.
Problem-Solving and Critical Thinking.

Relevant Courses

CS Courses: Introduction to programming(C Language)
AI Courses: Introduction to AI&ML
Math Courses: Calculus I&II, Vector Calculus , Complex Variables, Matrix Theory
Electrical Courses: Circuit&Network Analysis, Signals&Systems, Digital Systems , Semiconductor devices,Control Systems, Probability and Random Processes, Digital Signal Processing, Power System Analysis, Analog Electronics.
Supervised Machine Learning: Regression and Classification | Deep Learning.AI and Stanford University | Coursera
Introduction to IoT and Embedded Systems: University of California, Irvine | Coursera
Electrical Core Lab Courses: Electrical Circuits Lab, Electronic Devices and Circuits Lab, Digital Signal Processing Lab
Pattern Recognition and Machine learning

Projects

Digital Clock: Designed a 8-hours digital clock on bread board.
Heartbeat Monitor: Implemented a Photoplethysmogram(PPG) device for measuring heart rate and blood pressure.
School Management System(cpp project):

- Created a directory of students using OOPs concepts, the data can be accessed ,edited ,removed from the directory.

Sudoku Solver(cpp project):

- Created a sudoku solver using C++ that efficiently solves the puzzle using backtracking algorithm.

Chatbot:

- Built a chatbot for online shopping using dialogflow.
- Created a simple website and integrated the chatbot.

Data Analysis and Visualization with Tableau :

- Analyzed the Amazon sales dataset (available on Kaggle), and conducted data cleaning . Stored the Amazon Sales data in MySQL database, to analyze and retrieve information.
- Used Tableau to make visual charts and graphs from the data stored in a MySQL database.

Chronic Kidney Disease Prediction :

- Conducted data preprocessing, deployed machine learning models such as KNN, random forest etc., and deep learning models such as ANN, CNN etc., for predicting chronic kidney disease.
- Evaluated model performances using various metrics, and compared them to find the model which works the best.
- Deployed the model with flask

Extracurricular

NSS Volunteer
Cycling