

MAHEK VANJANI

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EXPERIENCE

Generative AI Research Intern

EJY Health

May 2024 - June 2024

Remote

- Developed visualization generation algorithms, enhancing data processing speeds by 40%, leading to a 50% increase in user engagement.
- Created a prototype capable of processing speech and text inputs, interpreting natural language queries, and generating insightful visual representations of complex datasets. [GitHub](#)

PROJECTS

Efficient Computations on ML Vision Accelerator

Under Dr. Palash Das, Dept. of CSE, IIT Jodhpur

August 2023 - April 2024

- Optimized the Vision Transformer model to reduce computation cycles from 7 to 3. Worked on making the hardware for the project.
- Worked with FPGA boards like Pynq-Z2 and Kintex 7 Genesys 2 to test optimized hardware codes.
- Tech used:** Vivado, Vitis HLS, FPGA, Pytorch. [GitHub](#)

Sentiment Analysis of Twitter Dataset

PRML Course Project

February 2024 - May 2024

- Calculated accuracy by EDA using two methods: one with NLTK and one without.
- Achieved a notable accuracy of 84% using advanced techniques in Random Forest and Logistic Regression models.
- Tech used:** Hugging Face, NLP, NLTK, ML Models. [GitHub](#)

Chat E-Library Bot

Self-Learning Project

June 2024

- Developed a chatbot for managing digital library resources like research papers, notes, and novels.
- Implemented Retrieval Augmented Generation to improve answer accuracy and user experience. Designed the wireframe.
- Tech used:** Hugging Face, Transformers, Figma, Google Gemini API. [GitHub](#)

Game Development

Exploratory Project

June 2024

- Developed a tic-tac-toe game using web development skills such as HTML, CSS, and JavaScript. [GitHub](#)
- Developed a tic-tac-toe game using Verilog, Vivado, and hardware (utilizing a breadboard for connections). [GitHub](#)



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EDUCATION

B.Tech in Electrical Engineering

IIT Jodhpur

October 2022 - Present

CGPA:8.47

Class XII

St. Anselm's Sr.Sc.School

June 2022

96.6%

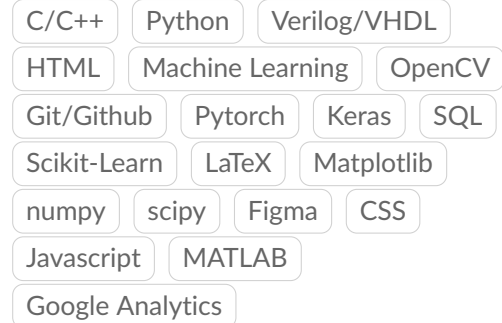
Class X

St. Anselm's Sr.Sc.School

June 2020

94.8%

SKILLS



COURSEWORK

- Data Structures and Algorithms
- Pattern Recognition and Machine Learning
- Engineering Mathematics I & II
- Signal and Systems(Grade:A-)
- Physical Electronics(Grade:A)
- Digital Design(Grade:A-)

POSITION OF RESPONSIBILITY

- Assistant Head, Entrepreneurship Cell,** IIT Jodhpur: Led initiatives to foster student entrepreneurship.
- Assistant Head, Econclave, Prometeo Fest:** Secured The Product Folks as an event partner for Prodpulse, increasing case study competition engagement by 120%.

ACHIEVEMENTS

- Secured Departmental Rank 5th after completion of four semesters.