

ACADEMIC DETAILS			
Degree	Institute	Year	CPI/%
B.Tech.	IIT Gandhinagar	2022-Present	8.37
Class XII	Sri Chaitanya College	2021-2022	98.7
Class X	Sri Chaitanya School	2019-2020	10

- PROJECTS
- **Food Delivery Database System**

[Feb '24 - Apr '24]

(Prof. Mayank Singh, IIT Gandhinagar) | [Project Link](#)

◦ Developed a comprehensive food delivery system for IIT Gandhinagar, involving stakeholder consultations, relational database design, frontend development using HTML, CSS, and Bootstrap, and backend implementation using Flask, Python, and SQL.

◦ The system includes features like SQL injection and XSS attack prevention, multi-user concurrent access, and Google authentication.

• **Hugging Face Models Audit for Text Classification**

[Nov '23 - Feb '24]

(Prof. Mayank Singh, IIT Gandhinagar)

◦ Contributed as a co-author to an ARR 2024 submitted paper, exposing discrepancies between claimed and real-world performance, emphasizing need for transparent reporting in model efficacy.

◦ Conducted extensive in-domain and out-domain analysis, which included direct inference and finetuning on the top 100 downloaded models, utilizing three prominent datasets.

◦ Uncovered surprising findings that some lesser-known models with fewer downloads exhibited superior accuracy, emphasizing the existence of hidden gems in the field.

• **Blithchron App, Blithchron, IIT Gandhinagar**

[June '23 - Nov '23]

(Flutter Developer) | [App Link](#)

◦ Developed and deployed the Flutter app for Gujarat's largest student-run cultural festival Blithchron.

◦ Skillfully integrated live quizzes, dynamic real-time location tracking, and crafted personalized user profiles featuring an intricate leaderboard system, all orchestrated with a robust Firebase backend.

• **SEC Filings Analysis with LLM**

[May '24]

(Self Project) | [Project Link](#)

◦ Extracted and cleaned 10,000 SEC filings from various companies, followed by data merging. Utilized Large Language Model (LLM) inference to generate comprehensive analyses and insights from the cleaned data.

◦ Manually curated valuable insights from the LLM-generated analyses, and developed a web application that accepts a company ticker as input and generates data visualizations based on the corresponding SEC filings and insights.

• **Implementing Neural Causal model for Treatment effectiveness**

[Mar '24 - Apr '24]

(Prof. Anirban Dasgupta, IIT Gandhinagar) | [Project Link](#)

◦ Replicated the Dragonnet architecture from scratch for estimating the treatment effects from observational data using neural networks.

◦ Implemented Dragonnet and evaluate its performance on the IHDP and ACIC 2018 benchmark datasets for causal inference.

• **Implementing GPT from Scratch**

[Mar '24]

(Self Project) | [Project Link](#)

◦ Implemented the paper 'Attention is All You Need' and built the transformer architecture from scratch to obtain a personalized language model trained on my own data.

• **Drowsy Driving Detection using BCI Technology**

[Aug '23 - Dec '24]

(Prof. Krishna Miyapuram, IIT Gandhinagar) | [Project Link](#)

◦ Implemented a robust machine learning model (SVM-RBF) trained on EEG data, achieving high accuracy for classifying attention states (focus, unfocus, drowsy); successfully deployed on an Arduino Nano using TensorFlow Lite and incorporating in a custom-designed 1-electrode EEG headset with 3D-printed components.
- TECHNICAL SKILLS

• **Programming Languages** Skills: C, C++, Python, HTML, CSS, JS, Flask, Git, Dart, Flutter, MYSQL, Matlab, Verilog,

• **Tools:** Autodesk Inventor Professional, Laser Cutting, 3D Printing.

• **Libraries:** huggingface, Pytorch, Numpy, React, Tensorflow, Scipy, Pandas, Matplotlib, Scikit-learn, TRL

• **Courses:** Natural Language Processing (CS 613), Databases (CS 432), Introduction to Data Science (CS 328), Data Structures and Algorithms, Biology for engineers, Machine Learning and Deep Learning Specialization by Andrew NG, Huggingface NLP Course, Intro to Healthcare(Coursera)

## ACHIEVEMENTS

- Felicitated with the prestigious Dean’s List Award for all Semesters (I to II) for securing a SPI of  $\geq 8.5/10$ .
- Designated as a KVPY scholar based on the All-India KVPY examination 2021 with an AIR rank of **821**.
- Secured AIR (All India Rank) of **1203** in JEE Advanced 2022 and scored **342/390** in BITSAT 2022.
- Recipient of the Reliance Foundation Undergraduate scholarship for exemplary academic performance.

## POSITIONS OF RESPONSIBILITY

- **Technical Team Member, Blithchron** [Jun '23 - Present]
  - Directed a dynamic technical team of seven, facilitating seamless collaboration with design and events teams to craft the comprehensive design of the Blithchron app.
  - Mentored and empowered junior team members, fostering active participation and proficiency in technology. Spear-headed numerous tech programs during the cultural fest, enhancing the team’s impact and technological prowess.