

EDUCATION

DEGREE	INSTITUTION	GRADE	YEAR
Btech in Mathematics and computing	Rajiv Gandhi Institute Of Petroleum Technology (An Institute of National Importance)	CGPA - 8.23(current)	2021-Present
Minor in Business Consulting (MBA)	Rajiv Gandhi Institute Of Petroleum Technology (An Institute of National Importance)	CGPA - 7.00(current)	2022-Present
Higher Secondary	Kendriya Vidyalaya Air Force Station Chakeri Kanpur (CBSE)	Grade-89.6%	2019-2020
Secondary	Kendriya Vidyalaya Air Force Station Chakeri Kanpur (CBSE)	Grade-95.2%	2017-2018

PROJECTS

1) "Sentiment Analysis of Customer Reviews in Retail E-commerce using LSTM and Word2Vec" (Completed)

I undertook an intermediate-level Natural Language Processing (NLP) project focusing on sentiment analysis of customer reviews for a retail e-commerce platform. Leveraging techniques such as tokenization, word embedding (Word2Vec), and recurrent neural networks (LSTM), I developed a model capable of accurately classifying customer sentiments as positive, negative, or neutral. The dataset consisted of 10,000 customer reviews sourced from the platform, with an even distribution among the sentiment classes. Preprocessing involved text cleaning, stop-word removal, and vectorization using TF-IDF. The LSTM model achieved an overall accuracy of 85%, with precision and recall rates of 0.86 and 0.84 respectively. This project not only honed my NLP skills but also provided insights into the importance of data preprocessing and model evaluation in real-world applications.

2)"Infant Mortality Rate Analysis: Unveiling Insights through Statistical Modeling(ongoing)

"Infant Mortality Analysis: Utilizing advanced statistical methods, I investigated global infant mortality rates. By analyzing diverse demographic, healthcare, and socioeconomic variables, I identified key factors using correlation and regression models. The final predictive model, achieving an R-squared of 0.75, emphasized the significance of maternal education, healthcare access, and GDP per capita. This project honed my statistical skills and highlighted data-driven insights for addressing critical global health issues."

ACHIEVEMENTS

1) Among the **top 2.5 percent** of the students who appear in the **JEE ADVANCED** which is regarded as one of the toughest Examination in the world.

2) **Stanford's Online Machine Learning Specialization:** Gaining comprehensive knowledge of ML algorithms, techniques, and practical applications. Excelled in rigorous coursework and hands-on projects, implementing diverse ML algorithms effectively.

SKILLS

- 1) Programming languages- Python(including libraries), C++, C, Javascript
- 2) Machine Learning (Supervised ,unsupervised and reinforcement Learning, databases ,)

COURSE DETAILS (BTECH IN MATHEMATICS AND COMPUTING)

- 1) **Mathematics courses-** Numerical analysis, Linear algebra and Complex analysis, Partial Differential Equations, Real analysis and Calculus, Discrete Mathematics, Statistics.
- 2) **Computer Science courses-** C programming, Data Structure and Algorithms, Animation in MAYA, Web Development.

EXTRACURRICULAR ACTIVITIES

- 1) **Editorial Cohead, IEEE [RGIPT] (2022 - Present)** - Lead and collaborate with a team of editors to oversee the creation and publication of high-quality technical articles, research papers, and publications.
- 2) Represented Kendriya Vidyalaya in **National Chess Events**, showcasing exceptional skill and achieving notable results held in **KIIT Bhubaneswar (2017 & 2018)**.