

# SHAKTI RAJ

MALE, 21 Years

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## EDUCATION

B.Tech	2020-24	NSUT
Class XII	2020	Maharaja Agrasen Model School
Class X	2018	Maharaja Agrasen Model School

## PROJECTS

### Heart Disease Prediction using Machine Learning

- Conducted comprehensive evaluation of **multiple Machine Learning models**, specializing in both **Categorical** and **Binary** classification tasks.
- Demonstrated proficiency in model selection and tuning, with a focus on achieving optimal accuracy. Employed **Logistic Regression modeling** with precision and expertise, resulting in the highest achieved **accuracy of 97.8%**.
- Applied a keen eye for **pattern recognition** during the exploratory **data analysis** phase, contributing to the development of **robust** and **accurate** machine learning models.

### Portfolio Website

- Developed **Responsive Layout** using **CSS media** queries to ensure optimal user experiences across various devices.
- Applied modern design principles, including **whitespace management**, **typography**, and **color schemes** to create visually appealing and user-friendly interfaces.
- Successfully integrated a **Contact form**, enabling seamless communication for website visitors.

### Twitter Sentiment Analysis for Hate Speech Detection

- Developed a Twitter Sentiment Analysis model to detect hate speech in tweets using **logistic regression** with **Bag-of-Words (BoW) feature extraction**.
- **Preprocessed** the dataset by **eliminating Twitter handles**, **special characters**, **numbers**, and **short words** and employed **stemming** for optimal feature extraction.
- Conducted data visualization through **Word Clouds** and bar plots to gain valuable insights into sentiment patterns, prevalent themes, and top hashtags in the dataset.

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, MySQL, R
- **Relevant Coursework:** Machine Learning, Data Visualization, DBMS
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, NLTK
- **Development Tools:** Visual Studio Code, Jupyter Notebook

## POSITIONS OF RESPONSIBILITY

### Co-Head – Finance Society of NSUT

- **Organized** and Hosted "**Invest-o-Denaro**," Finsoc **online trading**, in MOKSHA'22.
- Facilitated **efficient communication** between the **society** and the **college administration**.
- **Organized** "**Design your Dream**," Finsoc competition, at the NSUT's MOKSHA'21.

## EXTRA-CURRICULAR ACHIEVEMENTS

- Achieved **5 star** in the **CPP Hackerrank**, 2021
- Secured **191 state rank** in the International Informatics Olympiad, 2019
- Secured **2nd rank** in the Handball Zonal School Competition
- Track record of successfully instructing and mentoring over **200 students**