

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2022 - 2024	M.Sc Computer Science	Department of Computer Science,University of Delhi	8.41/10
2019 - 2022	BSc(Hons) Computer Science	Keshav Mahavidyalaya,University of Delhi	9.23/10
2019	CBSE(XII)	NagaJi S.V.M Sr. Sec. School, Ballia	93.2%
2017	CBSE(X)	NagaJi S.V.M Sr. Sec. School, Ballia	10/10

Key Projects

Customer Segmentation and Recommendation System | Python (Nov'23- Jan'24)

Mentor: Associate Prof. Dr. Dilip Senapati, Department of Computer Science , University of Delhi.

- * Customer Segmentation and Recommender systems are vital components of e-commerce platforms. The goal is to understand customer behaviour, group them based on similar characteristics, and provide personalized product recommendations.
- * In this analysis, we employ **Recency, Frequency, and Monetary (RFM)** analysis for Customer Segmentation and utilize **K-means clustering**.
- * Additionally, Singular Value Decomposition (SVD) is applied as a collaborative based filtering technique for building a recommender system to recommend similar products to users.

Government School Website (June'22- Sept'22)

- * Created a visually appealing and interactive static website for a government school to deliver crucial information to students, parents, and staff deployed under the UP Government.
- * Utilized **HTML, CSS, JavaScript, and jQuery** to build the website.

Spam and Ham Detection | NLP (Oct'22 - Nov'22)

- * Developed a machine learning pipeline to classify SMS messages as spam or ham using Natural language processing techniques
- * **Text Preprocessing:** Applied techniques like **tokenization, stopword removal, and stemming** to clean SMS messages.
- * **Feature Extraction and Modeling:** Utilized CountVectorizer for feature extraction and implemented **Decision Tree and Naive Bayes classifiers** .
- * **Model Evaluation:**Assessed model performance using **confusion matrices and classification reports**, ensuring accurate spam detection with high precision and recall.

Technical Skills

- **Programming Languages:** C++, Java, Python, JavaScript, HTML, CSS
- **Tools and Frameworks:** PyCharm, Dev-C++, SQL Workbench, Scikit-learn
- **Database Management:** MySQL
- **Data Analysis and Visualization:** NumPy, Pandas, Seaborn, Matplotlib
- **Web Scraping:** BeautifulSoup

Experience

- **Mentor and Social Media Handler - Kalpavriksha Foundation** (2019-Present)
 - Provided academic mentorship to **40 students** from the Brar Square Naraina slums in Delhi.
 - Offered personalized tutoring and future guidance to support their educational development and career aspirations.
- **SME Computer Science and Advanced Mathematics -Bartleby India** | Freelance (May'2022-Apr'24)
 - Provided expert guidance and resolved 1500 queries for international students in Subject of Computer Science.
 - Specialized in Machine Learning, Graph Theory, and Discrete Mathematics.

Extra-Curricular Activities

- Third Rank in **Cython** for creating visually appealing website without using Bootstrap Organised by **Sggscc College ,University of Delhi**
- Management Head of **SANKALAN'2024**, the departmental fest of **DUCS**. Managed 15 events and a crowd of around 2000 participants
- Second Rank in **Apex Crusade** ,Online **Gaming Event** Organised by **Department of Computer Science, University of Delhi**