

# VRINDAA MALIK

Driven to excel in leveraging data for meaningful & impactful solutions

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## EDUCATION

YEAR	COURSE/EXAMINATION	INSTITUTION/UNIVERSITY	PERFORMANCE
Pursuing	BSc. In Data Analytics & Programming	Indian Institute of Technology - Madras	8.8/10 CGPA
2024	B.Tech in CSE	Birla Institute of Technology, Mesra	9/10 CGPA
2020	AISSCE (Non-Medical)	Delhi Public School	95.2% [476/500]
2018	AISSE	K.R. Mangalam World School, Delhi	98.8% [494/500]

## WORK EXPERIENCE

### Publicis Sapient | *Data Science and Analytics Intern*

May 2023- Jul 2023

- Created a **Hotel Recommendation System** with **Neo4j Graph Database**, using advanced **Community Detection** algorithms like Louvain, Greedy Modularity, and Girvan Newman.
- Performed **Trend Analysis** to uncover patterns in each community, enhancing recommendations.
- Engineered a **GNN model** fusing collaborative and content-based filtering, leveraging identified seasonal trends for personalized suggestions.
- Designed a user-friendly UI with algorithm-based recommendation sections and innovated the search function with a state-of-the-art **Generative AI-powered search bar (LLM based)**.

## PROJECTS

### Parkinsons Disease Detection | *Computer Vision*

- The project involves the collection of image samples, specifically spirals, drawn by individuals with and without Parkinson's disease.
  - The project leverages Convolutional Neural Network (CNN) principles, a subset of machine learning, to analyze and process the collected image samples.
- Tech Stack Used:** OpenCV, NumPy, Scikit-learn, Scikit-image, imutils

### WhatsApp Chat Analyzer | *Natural Language Processing*

- "WhatsApp Chat Analyzer" on Heroku allows users to upload WhatsApp chat export files (.txt) for analysis.
  - It provides key metrics such as message averages, total messages, user insights, word clouds, busiest day, and date-based analysis, offering valuable insights from WhatsApp chats.
- Tech Stack Used:** Pandas, Numpy, Seaborn, Matplotlib, Wordcloud, Streamlit, NLTK, Heroku

## CERTIFICATIONS AND WORKSHOPS

- NPTEL workshop on “Applications of machine learning techniques in biology using WEKA” by Prof. M. Michael Gromiha, IIT Madras
- NPTEL workshop on “Optimisation: Theory and Algorithms” by Prof. Harish Guruprasad, IIT Madras
- ACM India summer school on Shape Modelling at Indraprastha Institute of Information Technology, Delhi

## POSITION OF RESPONSIBILITY

- GirlUp Anira | *President*** Jan 2023- May 2024  
**Key Skills:** Advocating rights for women, public speaking, leadership skills
- Irtiq (Dramatics Club) | *Vice President*** Apr 2022- May 2024  
**Key Skills:** Team Management, Acting, Skit Writing
- The Cultural Committee | *Vice President*** May 2023- May 2024  
**Key Skills:** Event & Resource Management, Leadership, Strategic Thinking & Problem Solving

## SKILLS

**Programming Languages:** Python, C, SQL, NoSQL

**Software:** Anaconda, VS Code, Google Colab, Replit, Power Bi, Neo4j

**Libraries:** Pandas, Numpy, Pytorch Geometric, Seaborn, Matplotlib, Sklearn, Tensor Flow

**Soft Skills:** Cross functional leadership skills, pragmatic problem solver, strong relationship management skills, expert attention to detail, curious to learn and acquire new skills.