

VINAYAK KAMAT

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[GitHub](#) | [Linkedin](#)

EDUCATION

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Degree in B.Tech Computer Science & Engineering

GPA: 8

Jalandhar

June 2021 - June 2025

Kendriya Vidyalaya Bhandup

Degree in High Secondary School

Percentage: 86.4%

Mumbai

July 2019 - July 2021

SKILLS

Programming Languages: C++, Dart, Python, Javascript

Libraries/Frameworks: Flutter, Tensorflow

Tools / Platforms: Git, VS code, NLTK

Databases: MySQL, MongoDB

PROJECTS / OPEN-SOURCE

TypeRacer | [Link](#)

Flutter , Node.js with Socket.io, MongoDB, Axios

Developed Typeracer, a real-time typing competition game using Flutter, designed for both web and mobile platforms. Players race to type a series of words accurately and quickly, with real-time updates and feedback.

Technologies: Utilized Flutter and Dart for the UI, applying the Singleton pattern and Provider for efficient state management. Integrated Socket.io for real-time communication and Axios for handling HTTP requests.

Features: Offers real-time multiplayer gameplay, a responsive design for cross-platform compatibility, user authentication, and a dynamic leaderboard to track and display player scores.

Achievements: Ensured smooth, lag-free gameplay and received positive feedback for its engaging user experience and intuitive interface.

Twitter Sentiment Analysis | [Link](#)

Python , NLTK, Machine Learning

Created a sentiment analysis system to classify tweets into different sentiment categories. Utilized logistic regression for sentiment classification, leveraging features extracted from tweet text.

Preprocessed data from Kaggle, which included text cleaning, tokenization, and feature extraction.

Implemented data analysis and visualization techniques to present the sentiment analysis results effectively. This project demonstrates proficiency in NLP, machine learning, and data handling

Features:

Sentiment Classification: Applied logistic regression to categorize tweets as positive, negative, or neutral.

Data Preprocessing: Performed text cleaning and feature extraction on Kaggle-sourced data.

Huffman Coding Compression and Decompression | [Link](#)

C++, Bit Manipulation, File I/O , Git

Developed a robust utility for compressing and decompressing files using Huffman coding. Constructed a Huffman Tree using a priority queue (min-heap) to generate variable-length codes based on character frequencies. The project includes encoding text data into binary format to reduce file size and decoding binary data to restore the original text accurately. Implemented efficient bit manipulation for data storage and retrieval. Demonstrated the ability to handle file I/O operations in binary mode and ensure data integrity throughout the compression and decompression processes.

HONORS & AWARDS

- GATE 2024 Qualified in Data Science and Artificial Intelligence
- All India University North Zone Quiz Competition Secured 5th position