

Kartik Valecha

India, Delhi

☎ +91 7838146098

✉ kartik12654@gmail.com

in [Kartik Valecha](#)

🔗 [Black-Rose-6](#)



EDUCATION

Jaypee Institute of Information and Technology

B.Tech. Computer Science Engineering CGPA : 8.0 / 10.0

Noida , UP

2020 - 2024

Indian Institute of Information and Technology Madras

BSc Programming and Data Science CGPA : 7.11 / 10.0

Chennai , Tamil Nadu

2020 - 2024

School of Excellence

Intermediate School (XII) PCT : 92.5 / 100

New-Delhi , Delhi

2019 - 2020

PROJECTS

OPTIMIZED COMMUNICATION METHOD FOR CLUSTERED FEDERATED LEARNING

[GitHub Repository](#) , 2022

The aim of this research project was to optimize the communication cost in Federated Learning through techniques like Compressed Sensing, which can be used to save significant amounts of data acquired by companies such as Google, Microsoft, etc. (using FL), on clouds.

- Achieved a data reduction of 46.875% with an avg global accuracy of 97.36%.
- Accomplished working model of the proposed approach using Raspberry Pie and sensors (Hardware)
- Technology Used: Python, Machine Learning, Socket.Io

Flash-Kard

[GitHub Repository](#) , 2021

The project aims to create a flashcard application for memory training. Users can customize and design their own flashcards to store questions/information as per their needs. Additionally, Webhooks are implemented to generate and share daily reminders and progress reports to users over email.

- Front-end: HTML + CSS
- Back-end: Flask (Flask, Flask-login, Flask-restful, Flask-cors, Redis, Celery)
- Database: SQLite3, Flask-Sqlalchemy

KHATH

[GitHub Repository](#) , 2021

This project aims to create an application that allows users to send and receive emails from other users, enabling formal communication while tracking the record of user activity and sent/received emails.

- Front-end: HTML + CSS
- Back-end: JavaScript
- Database: PHP + MySQL for connectivity

EXPERTISE

Data Structure & Algorithm

Machine Learning

Data Analysis

TECHNICAL SKILLS

Languages: C++ , Python

Additional Skills: Web Development (HTML, CSS, JavaScript), SQL, Excel, Tableau

Technologies/Frameworks: Scikit-Learn, Flask, React, GitHub, Git

Soft Skills: Good Communication, Time management, Team management and decision-making.

CERTIFICATION

- "Google Data Analytic" - Coursera
- Excel Skill Virtual Experience Program by JP Morgan Chase & Co
- Data Structures by University of California San Diego