

Kartik Vyas

Final Year (B.Tech)

Computer Science and Engineering

IIT Jodhpur

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CodeChef : [dare20](https://www.codechef.com/users/dare20) | CodeForces : [dare20](https://www.codeforces.com/profile/dare20) | HackerRank : [murdock20](https://www.hackerrank.com/murdock20)

Education

IIT Jodhpur | B.Tech - Computer Science and Engineering

Expected 2022

CGPA:8.42/10 [Till VI Semester]

Blue Heaven Vidyalaya

2018 | XII | Percentage: 88.0%

Seedling Modern High School

2016 | X | CGPA: 9.8

Skills

Competence

- Competitive Programming
- Mobile App Development
- Full Stack Web Development
- Machine Learning

Proficient

- C • C++ • HTML
- CSS • JavaScript • TypeScript

Familiar

- Java • Python
- Matlab • Latex • Git

Frameworks

- Angular • Bootstrap • React JS
- React Native • Django • Flask
- Spring Boot • Spring JDBC
- Keras • Pytorch

Others

- Content Writing
- Public Speaking

Relevant Courses

- Computer Programming
- Discrete Mathematics
- Data Structures and Algorithms
- Object Oriented Analysis and Design
- Software Engineering
- Theory of Computation
- Compiler Design
- Operating Systems
- Algorithm Design and Analysis
- Artificial Intelligence
- Database Systems
- Computer Networks
- Data Communications
- Linear Algebra and Calculus
- Probability, Statistics and Random Processes

Position of Responsibility

Student Guide | Counselling Services | Jul 2019 - May 2020

Mentored 9 students, worked in a team and organized Orientation week for 350+ students

Internship

Morgan Stanley

Summer Intern | May 2021 - July 2021

- Built **greenfield web application** used by 100s of Financial Advisors
- Made responsive, compact, easy to use frontend screens using **Angular**
- Integrated Stored Procedure calls and external API calls using **Spring Boot** and **Spring JDBC**
- Followed **agile practices**, part of design and business domain discussions and gave firm wide presentation.

Projects

SEMANTIC PLAGIARISM | [GitHub](#) | [Demo](#)

B.Tech Project | Nov 2020 - Apr 2021 | Mentors: [Dr. Romi Banerjee](#) and [Dr. Debarati Bhunia Chakraborty](#)

- Used Microsoft API to convert handwritten text to digital text.
- Formulated utilities like real plagiarism, semantic similarity, online plagiarism and textual entailment analysis for a thorough analysis of several textual submissions with the help of several key similarity features using **Python**
- Developed **binary classification**, **multi-class classification** and **regression** models using **Pytorch** and **Keras**
- Developed a compact and user-friendly website using **React** and **Flask**

AUTOMATIC ANSWER GRADER | [GitHub](#) | [Demo](#)

B.Tech Project | Jan 2020 - Apr 2020 | Mentor: [Dr. Anand Mishra](#)

- Designed and implemented a set of algorithms aided by the image processing libraries of **OpenCV** for grading OMR sheets and hosted it using **flask** API on **AWS EC2** instance
- Built a cross platform **mobile app** using **React Native** which allows the user to grade OMR sheets by uploading pictures of the answer sheets

DIVINE HOSPITAL WEBSITE | [GitHub](#) | divinehospitalsiwan.com

Freelancing Project | Jun 2020 - Aug 2020

- Designed and developed website for Divine Hospital, Siwan using **HTML/CSS**, **Bootstrap**, **JavaScript** and **Django**
- Used by 100+ users monthly. Added functionality of booking appointments and the users can see information about doctors, services, treatments, gallery and about hospital.

VID - STREAM AND DATABASE | [GitHub](#) | [Demo](#)

Course Project for Computer Networks and Database Systems |

Dec 2020 - Feb 2021 | Mentors: [Dr. Ravi Bhandari](#) and [Dr. Romi Banerjee](#)

- Established **video streaming** with synced audio over a local network and later saving streamed video on devices
- Clients can get access to the files that are present in any system connected to the network
- Implemented centralized as well as distributed database using **MySQL**
- Conditional Peer to Peer direct File transfer using **Python Sockets**

Achievements

- Secured a rank of **2929** [top 0.3 percentage] in JEE Advanced 2018
- Rated **Expert** on Codeforces with rating of 1714
- Rated **4 star coder** [Division 1] at Codechef with rating of 1917
- Globalrank **732/11678** in Global Round 10 [Div1+Div2] on Codeforces
- Globalrank **182/4215** in May Cook-Off 2020 Challenge Div 2 and **271/12921** in January Long Challenge 2020 Div 2 on Codechef

Extra-Curricular

- Core Member of Literature Club and Entrepreneurship Cell
- Coordinated IdeaSpark 2019 events, Annual Entrepreneurship Fest, IITJ
- Represented IITJ in Parliamentary Debate at InterIIT Cultural Meet 2018