Kartik Vyas

Computer Science and Engineering Sophomre | IIT Jodhpur
vyas.2@iitj.ac.in | Portfolio | 800.348.6067

EDUCATION

IIT Jodhpur
B.Tech in Computer Science and Engineering
May 2022
Cum. GPA: 8.16 / 10 [Till III Sem]
Blue Heaven Vidyalaya
XII: 88 Percent
Seedling Modern High School
X: 9.8 CGPA

SKILLS

Competence
• Competitive Programming
• Mobile App Development
• Front End Developer

LANGUAGES

Over 10000 lines:
• C++ • C
Over 2000 lines:
• Python • JavaScript
• HTML • CSS
Familiar:
• Matlab • Latex • NodeJS • Git
Frameworks:
• React Native • Django
• ReactJS • Bootstrap

OTHER SKILLS

• Content Writing • Public Speaking

COURSEWORK

• Data Structures And Algorithms
• Discrete Mathematics
• Software Engineering
• Theory Of Computation
• Computer Organization and Architecture
• Calculus and Linear Algebra
• Complex Analysis and Differential Equation
• Probability, Statistics and Random Processes
• Principles of Management
• Digital Logic and Design
• Signal and Systems

LINKS

• LinkedIn:// **Kartik Vyas**
• Github:// **vyaskartik20**
• Codechef:// **dare20**
• HackerRank:// **murdock20**

PROJECTS

AUTOMATIC ANSWER GRADER | Github→
Mentor : Dr. Anand Mishra | Jan 2020 – July 2020
- 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

IITJ HEALTH CENTER MANAGEMENT | Github→
Mentor : Dr. Anand Mishra | Aug 2019 – Nov 2019
- Built a **C++** portal automize the functioning of health center of IIT Jodhpur
- The aim was to maintain coordination between different departments/classes and to prevent delays in the necessary formalities

DIVINE HOSPITAL WEBAPP | Github→
Freelancing Project | June 2020- Present
- Designed and developed website for Divine Hospital, Siwan using **HTML/CSS**, **Bootstrap** and **Django**
- Added functionality of booking appointments and the users can see information about doctors and services offered

SYMPHONY- AUDIO SIGNAL PROCESSING | Github→
Mentor : Dr. Rajlaxmi Chouhan | Sep 2019– Dec 2019
- Worked on the concepts of Fast Fourier Transform (FFT), Short Term Fourier Transform (STFT) to find the extent of similarity based on different parameters between music composition and the original composition

TIME PALACE: PRODUCTIVITY ENHANCING WEBAPP |Github→
Self Project | May 2020 –July 2020
- Used **React** to develop a web application that has functionalities of a pomodoro timer with varied session lengths and notes/to-do list

ACHIEVEMENTS

- Secured a rank of **2929** [top 0.3 percentage] in JEE Advanced 2018
- Secured international rank **27** in SOF International Mathematics Olympiad
- Rated **4 star coder** [Division 1] at Codechef with highest rating of 1917
- Global rank **182** in May Cook-Off 2020 Challenge and **271** in January Long Challenge 2020 Division 2 on Codechef
- Received Google Foobar Invitaion

POSITION OF RESPONSIBILTY

Position Holder of Student Guide at Counselling Services
- Mentor of nine students and have the responsibility of their well being
- Helped in registration process of over 350 students

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