Kartik Vyas

Final Year (B.Tech)
Computer Science and Engineering
IIT Jodhpur

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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 | Certificate
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 Procedures and APIs via **Spring Boot** & **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 semantic similarity, online plagiarism and textual entailment with 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
• Developed algorithms aided by **OpenCV** library 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 which can be shared later.
• Implemented centralized as well as distributed database using **MySQL**
• Conditional Peer to Peer direct File transfer using **Python Sockets**

TIME SERIES ANALYSIS | GitHub | Report
B.Tech Project | Jul 2021 - Dec 2021 | Mentor: Dr. Gaurav Harit
• Anamoly Detection using **LSTM Autoencoder model**
• Single and Multi step Time Series Prediction using **LSTM** and **CNN-LSTM Encoder Decoder** models
• Worked extensively in healthcare domain to solve several problems

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** on Codechef with rating of 1917
• Globalrank **732/11678** in Global Round 10 [Div1+Div2] on Codeforces
• Globalrank **271/12921** in Jan 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 .