

**VIVEK ARORA**Course : **B.E. (Hons.)**, Computer Science, 2022

Email : f20181016@goa.bits-pilani.ac.in

Mobile : 9381404759

CGPA : 7.65

**ACADEMIC DETAILS**

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	FIITJEE Junior College	Telangana State Board of Intermediate Education	97.1 %	2018
CLASS X	Kennedy High the Global School	CBSE	10 CGPA	2016

Subjects / Electives	Compilers, Computer Networks, Operating Systems, Artificial Intelligence, Theory of Computation, Computer Architecture, Data Structures and Algorithms, Database Systems
Technical Proficiency	SQL, HTML, Web Development, C++, JavaScript, OpenCV, Python, CSS, React, Java

SUMMER INTERNSHIP / WORK EXPERIENCE

Teaching Assistant, BITS Pilani K.K Birla Goa Campus	Jan 2021 - May 2021
<ul style="list-style-type: none"> Taught a variety of Database Systems Theoretical Ideas to a class of 250 students.. Led an external Lab to supplement theoretical learning in Database Systems course. Recieved an Excellence certificate for tutorials as First Degree Teaching Assistant for Database Systems. 	
Product Intern, AlmaConnect	May 2020 - Jul 2020
<ul style="list-style-type: none"> Set up a personalized user invite system which increased sign-ups by 30 per cent. Migrated stored SQL procedures to the SSRS system to allow for server improvements. Lead the design and development of the "Job Status" feature on the portal enabling users to get updates about their applications. 	

VOLUNTEER EXPERIENCE

Abhigyaan - Role: Web Developer Cause: Education	Jan 2019 - Aug 2019
<ul style="list-style-type: none"> Assisted in development of the front end of a website using React framework. Worked with Google Firebase to manage user inputted data. Collaborated with team members using version control systems such as Git to organize modifications and assign tasks. 	

PROJECTS

Covid 19 Vaccine Scheduler Bot - Web Scraping	Mar 2021 - Mar 2021
<ul style="list-style-type: none"> Developed an automatic bot using Python and Google Cloud Console to register for a Vaccine. Implemented Selenium to create an instance of Chrome in order to interact with the correct elements of the web page. Created a Linux virtual machine to run on Google Cloud so that the program is able to run from the cloud. 	
Voice based Emotion Recognition System - Cognitive Neuroscience	Nov 2020 - Present
<ul style="list-style-type: none"> Developed a system that could recognize emotions based on user inputted speech. Used an MLP classifier from SciKit Library for classifying voice samples from the RAVDESS dataset as training. Emotions were classified into 8 primary classes based on Robert Plutchik's Theory of Emotions. 	
Transaction Management System - Object Oriented Design	Aug 2020 - Aug 2020
<ul style="list-style-type: none"> Designed a sample banking transaction system using Java to simulate the common functions of using a bank account. Used JavaFX to create a GUI that supports actions such as creating an account, deposit, withdraw, list all accounts, etc. Implemented object-oriented programming practices such as inheritance to create different account types and databases. 	
15 Puzzle Problem Solver - Artificial Intelligence	Aug 2020 - Aug 2020
<ul style="list-style-type: none"> Created a program to solve the popular 15 Puzzle problem in any inputted user configuration. Uses A* Search Algorithm to ensure that optimal solution is always achieved. Implemented Manhattan Distance heuristic to improve efficiency further. 	
Wumpus World Agent - Artificial Intelligence	Jul 2020 - Jul 2020
<ul style="list-style-type: none"> Developed an agent that could successfully exit a Wumpus World simulation after collecting the gold using the popular SAT Solver Davis–Putnam–Logemann–Loveland Algorithm. Heuristics such as Early Termination, Intelligent Backtracking and Value Ordering were further implemented to increase overall efficiency. 	
Intuder Alert System - OpenCV	Jun 2020 - Jun 2020
<ul style="list-style-type: none"> Created an dekstop application that monitors real-time video feed from a connected camera. Video feed is subjected to Morphological Transformations (eroded) and contours are drawn of the body where movement is detected. If movement crosses set threshold, an alarm is rung and owner is alerted of breach via phone and a text message using Twilio API. 	
Web Portfolio - Web Development	May 2020 - May 2020
<ul style="list-style-type: none"> Developed a Personal Portfolio to showcase my work Link to Portfolio - www.vivek-arora.me 	
Netflix Clone App - Web Development	May 2020 - May 2020

<ul style="list-style-type: none">◦ Created a replica Web application of Netflix using React and GraphQL.◦ Processed user inputted information in the back-end of the app to return movie title of choice.◦ Supports features such as infinite scroll and paging.		
POSITION OF RESPONSIBILITY		
Event Manager - Waves Controls - Organizing committee of Waves (Annual Cultural BITS Goa)		Mar 2019 - Nov 2019
<ul style="list-style-type: none">◦ Led a team of 12 people which organized our annual Moot Court competition Lex Omnia and Contention (our annual British Parliamentary Style Debate competition). This included working out sponsorship deals, preparing marketing strategies and running the event.◦ Created a 12% increase in Revenue Generated for the event through Targeted Marketing.◦ Led the Waves CSR Beach Cleanup Drive (cleaned 5 beaches in the Goa with a small team of 30 people)		
EXTRA CURRICULAR ACTIVITIES		
Debate Part of the Debate Club which engages in a wide variety of social issues.		
Squash Part of BITS Goa Squash Team playing weekly games against other local teams.		
CERTIFICATIONS		
CERTIFICATION	CERTIFYING AUTHORITY	DESCRIPTION
Project Management Principles and Practices Specialization	University of California, Irvine	
LANGUAGES KNOWN		
ENGLISH, HINDI		