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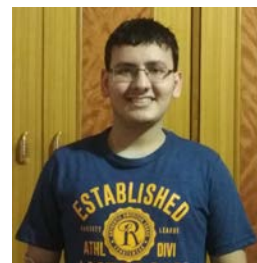
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🌀 ChargedMonk

in Vatsalya

VATSALYA BAJPAI

Indian Institute of Technology, Jammu



ACADEMIC QUALIFICATIONS

Year	Degree/Examination	Board/University	%/CGPA
2017 - Present	Bachelor of Technology in Electrical Engineering	Indian Institute of Technology, Jammu	6.82/10.0
2016	Class XII	Council for the Indian School Certificate Examinations	93.40%
2014	Class X	Council for the Indian School Certificate Examinations	92.33%

ACADEMIC DISTINCTIONS AND CO-CURRICULAR ACHIEVEMENTS

Online Hackathon Festival	<ul style="list-style-type: none">Stood overall 2nd in the Online Hackathon Festival organized by IIT Bhilai and Dare2Compete which had over 4500 participantsStood overall 3rd in the Online Hackathon Festival organized by UIET and Dare2Compete which had over 4000 participants
Brain Games	<ul style="list-style-type: none">Won the event by grabbing the 1st position in this logical quizzing event which had teams participating from all over north India
Aeronautics	<ul style="list-style-type: none">Modelled highest flying Quadruple Drone in the Drone Modelling Workshop by TechEagleModelled a Glider in Aerodynamics Modelling Workshop
Technical Skills	<ul style="list-style-type: none"><u>Programming Languages</u> – Python Julia GO Java C C++ Ruby<u>Libraries/Frameworks</u> – TensorFlow Keras OpenCV Pygame Pytesseract PyTorch<u>Systems/Platforms</u> – Linux AWS Google Cloud Platform Docker Raspbian<u>Software</u> – Android Studio 20SIM CST Autodesk Inventor Xilinx ISE Xilinx Vivado<u>DBMS</u> – MySQL<u>Others</u> – MATLAB Octave PHP VHDL HTML XML CSS<u>Interests</u> – Artificial Learning Machine Learning Data Analysis IoT Signal Processing
Soft Skills	<ul style="list-style-type: none">LeadershipManagement SkillsTeam Player

PROJECTS

XyNET - Closed Caption generator using Signal Processing	<ul style="list-style-type: none">It extracts audio from a video and filters out the non-human audio using a sequence of low pass filters and band pass filters. After removal of noise, speech recognition is applied using the PocketSphinx speech recognition API. Time stamped captions are then generated and stored in '.srt' extension fileGitHub Link - https://github.com/ChargedMonk/XyNET
ZyPHER - IoT based Advanced Security Device	<ul style="list-style-type: none">An advanced security device based on IoT made on Raspberry Pi, which detects motion using PIR sensor and captures images and video of the intruder and notifies the user via email also sending the captured images and videoGitHub Link - https://github.com/ChargedMonk/ZyPHER

Rage of Orion – A game on Python	<ul style="list-style-type: none"> A complete game based on Python using Pygame module. Implemented collision mechanics. Worked on graphics development for the game GitHub Link - https://github.com/ChargedMonk/Rage_of_Orion
HomoSapien_Counter	<ul style="list-style-type: none"> It detects all the humans present at a traffic junction using available cameras at a traffic light. It's part of a bigger project of smart traffic management system using junction cameras. GitHub Link - https://github.com/ChargedMonk/HomoSapien_Counter
Solar Beach Chair	<ul style="list-style-type: none"> A solar powered beach chair with an efficient design so that you can charge your devices while away from any power source. This project was part of MEP101 course at IIT Delhi under Prof. P.V.M. Rao YouTube Link - https://youtu.be/QS7oiIjIysA
POSITIONS OF RESPONSIBILITY	
Joint Secretary IEEE Student Chapter IIT Jammu 2018 - Present	<ul style="list-style-type: none"> The first Joint Secretary of IEEE Student Chapter, IIT Jammu Established IEEE Student Chapter at IIT Jammu
Coordinator Technical Fest of IIT Jammu	<ul style="list-style-type: none"> Coordinated GameCON, the E-sports event at the annual technical fest of IIT Jammu in 2019. Hosted four sub events under it with a total budget of over 2 lacs with immense participation from colleges all over North India.
Coordinator Cultural Team at Freshtival	<ul style="list-style-type: none"> Coordinated the cultural team at Freshtival, the inducting event of 2018 batch students of IIT Jammu Managed all the backstage activities including sound system, lightings and props. Worked alongside the decoration team to handle decoration, seating and lightings
EXTRA CURRICULAR ACHIEVEMENTS	
Workshops Conducted	<ul style="list-style-type: none"> Taught Java at a workshop to the 2017 batch of IIT Jammu Showcased Project ZyPHER and explained its working in a workshop conducted under the Robotics Club of IIT Jammu
CyberFiesta 2015	<ul style="list-style-type: none"> Represented my school at CyberFiesta, the annual technical fest of Methodist High School
Sports	<ul style="list-style-type: none"> Scorer of the Grand Final of Cricket tournament at the first Convoquer, the annual sports fest of IIT Jammu in 2018 Scorer of the Volleyball tournament at Convoquer 2019 Avid volleyball, table tennis and chess player
Photography Club Member	<ul style="list-style-type: none"> Designed the logo of GameCON