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# JIGYASA GUPTA

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## EDUCATION

- Dayananda Sagar College of Engineering** Dec 2020 - Aug 2024  
B.E. Computer Science and Engineering CGPA : 8.81/10
- Vidya Bharati Chinmaya Vidyalaya** 2017-2019  
Senior Secondary School | House Captain Percentage : 85.2%
- Vidya Bharati Chinmaya Vidyalaya** 2007-2017  
High School | Girl Topper | Leadership Awardee(2016-2017) CGPA : 10/10

## SKILLS

**Languages :** Python, C/ C++, HTML, CSS, JavaScript

**Frameworks/Technologies/Tools :** GitHub, MATLAB, OpenCV, Tensorflow, JavaScript, jQuery, MongoDB, SQL, ExpressJS, ReactJs, NodeJS, Mongoose, Bootstrap, Postman, REST API, JSON, Lua, Raspberry Pi, Roblox Studio, LaTeX

**Others:** Data Structures and Algorithms, Technical Writing, Critical Thinking, Problem Solving, Linear Programming, Quantitative Analysis, Logical Thinking, Efficient interpersonal, communication, and presentation skills, Quick learner

## PROJECTS/RESEARCH WORK

- AI-guided Echocardiography** for Improved Image Quality and Image Bio-Marker Quantification (**Research**):
  - \* Sensing position and orientation of probe using Raspberry Pi (interfaced with a camera) calibrated to detect the probe-projected beam using OpenCV.
  - \* Aimed at using a fully convolutional neural network (FCNN) with attentional deep supervision for automatic and accurate segmentation of ultrasound images of the heart.
  - \* Integration of the hardware with the ultrasound device and providing feedback to the operator using an ML model trained to suggest coordinates for better clarity of ultrasound images.
- Deep Learning for early detection of Parkinson's disease** using Electroencephalogram(EEG) signals ( **Research-Ongoing**): Brain-computer interfacing(BCI) to analyze brain activity using Electroencephalogram(EEG) signals and apply the Deep Learning(CRNN model) to predict early symptoms by observing spatiotemporal features.
- PeriodVentures : Edutainment game for Menstrual Health**  
Fantasized interactive task-based game developed on Roblox to familiarize with Menstrual health.
- GoalScore : Live Score Project for Football**  
Developed using ReactJs for admin-enabled live score updation during football matches .
- TradeMySport : Betting App** for underrepresented Sports- Releasing tokens and NFTs for players of various sports to be purchased/trades by fans so the players can raise funds for training out of each transaction done on their token. Based on Web 3.0, Smart Contracts, Tokenization, ReactJs, Filecoin(IPFS), Deployed on Hedera.
- EcoWatch: Best Social Impact Project** - (Microsoft Learn Student Community)  
Predict solar energy usage with Azure Machine Learning Designer. The model aims at helping people to choose installation of solar panels by giving them an estimate of solar energy available in their locality using weather, temperature and wind data .
- Musical World : Music Player Web-app.**  
Designed to make a playlist, upload new songs and add them to favorites. The app supports songs of 3 languages - English, Hindi and Kannada Developed using HTML, CSS, JavaScript, MySQL, XAMPP
- Drum Kit : Open-sourced - Kharagpur Winter of Code ,2021**  
Play your own drum-roll, a web-app designed to play beats of the drum using a simple instruction manual of keypresses and clicks . Based on HTML, CSS and JavaScript.
- Web3 Patreon** : Platform to connect content creators and users giving them premium content access using Zero-knowledge proofs to ensure privacy of user's interests. Based on React, Solidity, Lighthouse, zkBob and Push Protocol.

## ACHIEVEMENTS

- \* UnloKC'22 (Kimberly Clark Hackathon) - Runner's Up-Edutainment Game development(Kotex) 2022
- \* ETHIndia 2022 - Bounty Winners for zkBob Pool and Push Protocol Dec 2022
- \* Harvard WECODE Scholar 2022
- \* H.E.R DAO Scholar (Travel Scholarship to Singapore-550 USD)-Web3.0 Hackathon 2022
- \* MasterZ Scholar (Europe-Middle East-India edition)-Web3.0 Scholarship 2022
- \* Best Social Project Award(Green Tech) Microsoft Learn Student Community Jan 2022 - Mar 2022
- \* Kharagpur Winter of Code (KWOC) 2021 Dec 2021 - Jan 2022
- \* Hacktoberfest 2021 Oct 2021
- \* 30 Days of Google Cloud Sep 2021 - Oct ,2021
- \* IEEE Embedded and Application IOT Certification Scholarship Awardee (worth 35k) Nov, 2021

## CERTIFICATES/MOOCs

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- 1.AWS Machine Learning Foundations(AWS Scholarship-Udacity)
- 2.Learning Java (LinkedIn Learning)
- 3.Complete JAVASCRIPT with HTML5,CSS3-2021(Udemy)
- 4.Learning C++ (LinkedIn Learning)
- 5.Google - Foundations: Data, Data, Everywhere(Coursera)
- 6.Learning Python(LinkedIn Learning)
- 7.Qwiklabs Diwali Challenge

## POSITION OF RESPONSIBILITY / EXPERIENCE

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|---|--------------------|
| 1. <b>Microsoft Learn Student Ambassador</b> — Beta (Dec'21 - Present)   Alpha (Oct'21- Nov'21)   New (Oct'21)          | Oct'21- Present    |
| 2. <b>Chair, ACM-W</b> <i>Association for Computing Machinery's Council on Women in Computing</i>                       | May 2021-Present   |
| 3. <b>EMCEE Lead(GDSC)</b> -Google Developer's Student Club   | Jul'22- Present    |
| 4. <b>Intern</b> - Brane Enterprises  | Jul 2022 - Present |
| 5. <b>Mentor</b> , Kharagpur Winter of Code ( <b>KWoC'21</b> ) -Indian Institute of Technology(IIT), Kharagpur          | Dec, 2021          |
| 6. <b>Team Lead, Event Management(ACM-W)</b> <i>Association for Computing Machinery's Council on Women in Computing</i> | May 2021-Present   |
| 7. <b>Strategic and EMCEE Lead</b> , SparkAR DSCE Chapter - <i>AR Community on Campus by Facebook (now Meta)</i>        | Oct 2021-Present   |
| 8. <b>Club Speaker</b> , TedEd   <b>Head Organizer</b> - JIVA, <i>Interschool BioFest, by VBCV</i>                      | 2018 - 2019        |
| 9. <b>School Vice Captain</b>   | 2016 - 2017        |