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**EDUCATION**

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- **Masters in Computer Science** **Aug 2023 - 2025**  
Arizona State University, Tempe, Arizona, USA
- **B.E in Computer Science Engineering – 7.63/10.0 (CGPA)** **2019 – 2023**  
Birla Institute of Technology and Science - Pilani (BITS Pilani), Goa, India

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**RESEARCH EXPERIENCE**

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**IHMI Lab, BITS Pilani, Undergraduate Thesis under Dr. Surjya Ghosh** **Aug 2022 – May 2023**

- Title: Developing AI-enabled Framework for Opportunistic Emotion Self-Report Collection
- Objective: To develop framework that decides probing moments for emotion self-report collection instead of continuous sampling of emotion self-reports. Delivered state-of-art ML model based on variation in physiological signals for detecting opportune self-report collection moments, technical documentation

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**WORK EXPERIENCE**

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**Amazon, Software Development Engineer Intern** **May 2022 – Jul 2022**

- Developed script for Amazon Data Services that creates a customized dashboard showing code reviews raised to a team or group. It also mails the dashboard view to reviewers and managers
- Participated in a 2-day intra-organization hackathon. Collaborated in a diverse team of 5 to solve a pain-point and ameliorate employee experience

**Microsoft Engage Mentorship Program, Mentee** **Jun 2021 – Jul 2021**

- Created web application where two users can enter the same room to have an audio and video call
- Used front-end and back-end web technologies, web sockets and APIs - [Link](#)

**Dotlas, Data Engineer** **Nov 2022 - May 2023**

- Working closely with the CTO to write scripts in Python, SQL to wrangle, analyze data
- Engineering, maintaining ETL pipelines and table creation and normalization

**Swecha Organisation, Machine Learning Intern** **Jun 2021 – Jul 2021**

- Performed lane detection using center & two side lines as part of autonomous cart for agriculture
- Used the OpenCV python library for computer vision for the detection of lines

**Elixir Systems, Augmented Reality Developer** **Apr 2020 – May 2020**

- Designed models & animations using Unity and Blender 3D modeling for Chemistry Lab experiments for Classes XI & XII
- Models use Augmented Reality to build virtual interface where students can perform experiments

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**PROJECTS**

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**Title: Tic-Tac-Toe Android Application** **Dec 2022**

- Developed single and multiplayer tic-tac-toe game application using JAVA and Firebase - [Link](#)

**Title: Tetris Game Engine** **Mar 2022 – May 2022**

- Designed a programming language to make Tetris game and its variants that runs on terminal
- Implemented the compiler and grammar for the language - [Link](#)

**Title: Generating Audio from given Genre** **Dec 2021**

- Created a variational autoencoder that generates an audio clip, given its genre
- Developed the model, trained, and tested using PyTorch and NumPy - [Link](#)

**Title: Impact of Skip Connections in Multilayer Perceptron** **Sep 2021**

- Compared the performance of a Multilayer Perceptron with skip connections to those without it

- Used PyTorch to perform ablation studies & variational autoencoder as a generative model - [Link](#)

## **Title: Game Development Using Unity**

**May 2020 – Jun 2020**

- Developed an indie game Pulse! for Developers' Society BITS-Goa Game Development [website](#)
- Worked on Unity Game Engine and C# Programming - [Link](#)

## **Title: AR-based App Development**

**Jul 2020**

- Participated in a 2-day hackathon to build project focused on mental health during COVID-19
- Created an AR-based app that guides the user through yoga postures - [Link](#)

## **TEACHING EXPERIENCE**

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### **Undergraduate Teaching Assistant at BITS Pilani – Goa, CSIS Dept.**

- Computer Networks (CS F303) **Jan 2023 – May 2023**  
*Assisted in conducting labs & creating questions for labs based on socket programming & networking*
- Design & Analysis of Algorithms (CS F364) **Jan 2023 – May 2023**  
*Assisted in conducting labs & creating questions for labs based on Algorithms & Dynamic Programming*
- Compiler Construction (CS F363) **Jan 2023 – May 2023**  
*Assisted in conducting labs & creating questions for labs based on Flex, Bison, LLVM & Compiler Design*
- Object Oriented Programming (CS F213) **Aug 2022 – Dec 2022**  
*Assisted in conducting labs and creating questions for labs based on JAVA and Object-Oriented Programming designed for second-year students*
- Computer Programming (CS F111) **Mar 2022 – Jul 2022, Mar 2021 – Jun 2021**  
*Assisted in conducting labs and creating questions for labs based on BASH and C programming*

## **POSITIONS OF RESPONSIBILITY**

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- Vice-Captain, Girls' Basketball Team, BITS-Pilani, Goa **Aug 2021 – Aug 2022**
- Vice Chair, ACM BITS-Pilani Goa Chapter **Apr 2021 – Apr 2022**
- Core Member, Developers' Society, BITS-Pilani, Goa **Jan 2020 – Jun 2021**
- Secretary of Inter-School Competitions, Delhi Public School, Faridabad **2017 – 2018**

## **VOLUNTEER EXPERIENCE**

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- vGHC' 21 Open Source Day Mentor **Jul 2021 – Oct 2021**
- Chapter Lead, GirlScript Foundation **May 2021 – Nov 2021**
- Mentor, BITS Goa Women in Tech **Feb 2022 – Present**
- Mentor, Peer Mentorship Program, BITS-Pilani, Goa **Nov 2020 – Jun 2021**
- Mentor, Game Development Summer Technical Projects at BITS Goa **Jul 2021 – Sep 2021**
- VMware Campus Ambassador **Oct 2021 – Apr 2022**
- Alpha Microsoft Learn Student Ambassador **May 2021 – May 2022**

## **ACHIEVEMENTS**

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- Received 100% fee waiver scholarship at DPS, Faridabad **2017 – 2018**
- Excellence for Teaching Assistantship for Computer Programming at BITS Pilani **2021 – 2022**
- Earned State 1<sup>st</sup> Rank in NSTSE Examination **2012**
- Scholar Badge and Proficiency Awardee at DPS, Faridabad **2011 – 2019**

## **SKILLS**

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- **Programming Languages & Tools:** C, C++, C#, JAVA, Python, HTML, CSS, JavaScript, PHP, React.js, NumPy, Pandas, PyTorch, Keras, Scikit Learn, OpenCV, TensorFlow, Unity Game Engine, Blender, Android Studio, MySQL, Firebase, Git, Linux
- **Certifications:** Build Basic GANs, Basic Problem Solving, Fundamentals of Deep Learning, Network Management & Ethical Hacking, Game Development, Augmented Reality Development & ARCore, Google Cybersecurity Specialization