**Education**

**Masters of Computer Science Sept 2022 – March 2023 (Expected)**

University of California, San Diego (UCSD) CGPA: 3.95/ 4

*Relevant Courses*: Neural Networks, Computer Vision, Scalable Data/ML Systems, Recommender Systems

**Bachelor Of Engineering (Computer Engineering) August 2018 – July 2022**

Vivekanand Education Society’s Institute of Technology (VESIT) CGPA: 9.013/ 10

*Relevant Courses*: Object Oriented Programming, Human Machine Interaction, Data Analytics, Web Design

**Internship Experience**

**Full Stack Developer, Stealth Startup**  **Feb 2023 – Present**

* Integrating Python-based DL architecture to a user-friendly Web Application utilizing AWS and React JS.
* Secured $100K in funding in AWS credits from Adobe.

**Full Stack Development Intern, Makos Infotech**  **June 2021 – July 2021**

* Developed Server-side rendering for their main website (Jobaskit.com) utilizing JQuery, PHP, and MySQL, which targets automating the On-campus placement process for various colleges.
* Managed existing and created relational databases using MySQL Workbench and deployed them on AWS.
* Worked on the website's front-end design using the prototyping tool Figma, followed by Bootstrap.
* Co-pitched the online job placement portal, Jobaskit, to 3 University professors alongside the founder.

**Web Developer Intern, VESIT Renaissance Cell** **June 2020 – July 2020**

* Led a team of 6 to design and implement a Django-based Paper Publication Easy-to-use Website for my college, wherein teachers can easily add their newly published work for the students to see.
* Developed a [Portfolio Website](https://anjaliyeole-15e4c.web.app/) for our mentor.

**Data Analyst Intern, Leadingindia.ai May 2020 – June 2020**

* Worked in a team of four to build a Vaccine Prediction model on the H1N1 and seasonal flu vaccines to accurately predict the trends of the public acceptance rate (41%) of the Covid-19 vaccine.
* [Research Paper](https://doi.org/10.1007/978-981-16-0401-0_11) was published in Springer & I wrote a [Blog](https://medium.com/@jjhaveri1906/pandemics-a-harsh-reality-7c05254e907b) showcasing the correlation between the two pandemics.

**Projects**

**GrooveGenie: A copyright-free music generator March 2023 – Present**

* Created an open-source music generation model, utilizing Facebook’s EnCodec Transformer model to compress audio wave files to an embedding that the model can understand.
* Training a conditioned GAN neural network that generates music based on user-provided genre inputs embedded using the BERT model, with a goal of creating copyright and royalty-free music, being trained on the FMA dataset.

**[Game Genre and Recommendation Classification using Steam Reviews](https://github.com/JayJhaveri1906/Game-Genre-and-Recommendation-Prediction) Nov 2022 – Dec 2022**

* Designed data pipelines to preprocess and apply machine learning techniques to classify game genres and also personalize game recommendations using the user’s reviews and hours played.
* Out of N-gram, Multinomial NB, and Linear SVC, RF with Balanced data & TF-IDF gave the highest accuracy of 90.53%.

[**Aatmanirbhar Sanchar: Secure Self-Sufficient Communications**](https://github.com/JayJhaveri1906/Aatmanirbhar-Sanchar) **June 2021 – May 2022**

* Led a team of 4 to design and develop an off-the-grid, cross-platform secure multimedia-supported chat application.
* Followed a CI/CD approach to build a client-server architecture with the server based on python and React JS.
* Made in collaboration with the Tata Institute of Fundamental Research (*TIFR*) to be used within the organization.

[**Divya-Drishti: An Independent Aid for the Visually Impaired**](https://github.com/JayJhaveri1906/Divya-Drishti) **Aug 2020 – May 2021**

* Created a Voice-activated standalone AIOT android application using Raspberry Pi4 to help Visually Impaired People (VIPs) accurately and efficiently detect Indian Currency notes, colors, and everyday objects.
* Funded by the Mumbai University Minor Research Grant Program.
* Achieved a *400%* net cost reduction compared to products made by OrCam.
* Published a [research paper](https://dx.doi.org/10.2139/ssrn.3867707) highlighting the needs of VIPs.

**[Code for Change Hackathon: A Data Extraction project](https://github.com/JayJhaveri1906/Saath-Baara-Utara-OCR-The-7-12-OCR) Nov 2020 - 24 hours**

Developed data extracting software for Global Parli Foundation NGO to automate the translation of Land/Farm ownership papers’ pdf originally in Devanagari Script into an editable Excel sheet using OCR. *Tech Used:* *Django, Google Cloud, Html/CSS. Achievement: Secured* ***First*** *position for the data extraction project amongst the 72 teams participating.*

**Research Publications**

Inampudi S., **Jhaveri J.** et al., (2021) **Machine Learning Based Prediction of H1N1 and Seasonal Flu Vaccination**. In: Garg D., Wong K., Sarangapani J., Gupta S.K. (eds) Advanced Computing. IACC 2020. Communications in Computer and Information Science, vol 1367. Springer, Singapore. (<https://doi.org/10.1007/978-981-16-0401-0_11>)

**Technical Skills:** Python, PyTorch, Neural Network, SQL, Data Analysis, OOP, HTML/CSS, Javascript, AWS, Google Cloud