

EDUCATION

Masters of Computer Science

Sept 2022 – June 2024 (Expected)

University of California, San Diego (UCSD)

CGPA: 3.96/4

Relevant Courses: Deep Generative Modelling, Advanced-Data Text Mining (NLP), Scalable Data/ML Systems

Bachelor Of Engineering (Computer Engineering)

August 2018 – July 2022

Vivekanand Education Society's Institute of Technology (VESIT)

CGPA: 9.013/10

Relevant Courses: Machine Learning, Distributed Systems and Computing, Artificial Intelligence & Computing

WORK EXPERIENCE

Cyber Security & Machine Learning Intern, Legendary Entertainment

June 2023 - Present

- Reduced false positive anomaly detection time by 10x by Streamlining employee online activity monitoring using Splunk Dashboard and Python scripting.
- Contributed to integrating a FIDO Alliance product into the SSO workflow, enhancing security and user experience.
- Assisted in foundational work for the Shared Learning Intelligence Platform (SLIP) to improve anomaly detection in security cloud brokers in collaboration with Sky High Security.

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.
- Mentored 2 intern recruits working on the digitalization of the teaching process.

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 was published in Springer & I wrote a Blog showcasing the correlation between the two pandemics.
- Secured first position for the mentioned research project amongst 85 peers intercollege.

PROJECTS

Conversational QnA LLM between Doctor-Patient

March 2023 - July 2023

- ✓ Experimented by comparing Fine-tuned distilled generative text models like GPT2, Bloom with larger general models like GPT 3.5 and 4 for a Doctor Patient QnA conversation.
- ✓ Led team of 4 in fine-tuning diverse language models (e.g., bloom, t5, gpt2) on the MedQuad dataset, comparing them with larger models (gpt3.5, gpt4) using direct questions and prompt engineering.
- ✓ Collaborated with Microsoft researcher Dr. Asma Ben Abacha, creator of MedQuad dataset, for expert guidance.
- ✓ Utilized ROUGE, BLEU metrics, and conducted user surveys for doctors and patients to evaluate model performance.

GrooveGenie: A copyright-free music generator

March 2023 - June 2023

- ✓ Created an open source music generation model, utilizing Meta's EnCodec Transformer model to compress audio wav files to an embedding that can be understood by the model.
- ✓ Training a conditioned GAN network that generates music based on user-provided genre inputs embedded using the BERT model, with a goal of creating only copyright and royalty-free music, being trained on the FMA dataset.
- ✓ Trying out different, more efficient Diffusion/Transformer architecture to generate audio.

Divya-Drishti: An Independent Aid for the Visually Impaired

Aug 2020 – May 2021

- ✓ Achieved a 400% net cost reduction by creating a Voice-activated AI-IoT android application to help <u>Visually Impaired People</u> (VIPs) when compared to OrCam.
- ✓ Developed the capability to accurately and efficiently detect Indian Currency notes, colors, and everyday objects.
- ✓ Funded by the Mumbai University Minor Research Grant Program.
- ✓ Received feedback, on the android-Java app developed, by National Association for the Blind (NAB)'s members.
- ✓ Published a research paper highlighting the needs of VIPs.

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, TensorFlow, OpenCV2, Splunk, SPL, AWS, Google Cloud, Firebase, Linux, Git