

**EDUCATION** 

# **Masters of Computer Science**

**Sept 2022 – June 2024 (Expected)** 

University of California, San Diego (UCSD)

CGPA: 3.97/4

Relevant Courses: Deep Learning, Scalable ML Systems, Recommender Systems, Computer Vision, Adv NLP - LLMs

# **Bachelor Of Engineering (Computer Engineering)**

August 2018 – July 2022

Vivekanand Education Society's Institute of Technology (VESIT)

CGPA: 9.013/10

<u>Relevant Courses</u>: Machine Learning, Software Development, Big Data (Hadoop), Algorithms, Cloud Computing

INTERNSHIP EXPERIENCE

# Machine Learning & Cyber Security Intern, Legendary Entertainment

June 2023 - Dec 2023

- Reduced false positive anomaly detection time by 10x by Streamlining employee online activity monitoring using Splunk Dashboard, Python scripting and integration with Azure MSGraph API.
- Contributed to integrating a FIDO Alliance product into the SSO workflow, enhancing security and user experience.
- Assisted the lead SOC analyst 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.
- Co-pitched the online job placement portal, Jobaskit, to 3 University professors alongside the founder.

## Data Analyst Intern, Leadingindia.ai

May 2020 - June 2020

- Worked with 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** 

## Alt Bot for Mastadon: An automatic image alt generation bot

Sep 2023 - Jan 2024

- ✓ Developed a Chrome extension to help the visually impaired browse decentralized social media by leveraging hugging face image captioning ML models to generate alternative descriptions for images in posts.
- ✓ Deployed 3 levels of custom cache system to ensure peak and efficient performance with no lag.
- ✓ Being part of a team of 10 members, we also envisioned this being useful in easing the search for specific media.

#### **MedLM: Exploring Language Models for Medical QnA Systems**

March 2023 - Aug 2023

- ✓ Led a 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 dynamic prompt engineering.
- ✓ Collaborated with Microsoft researcher Dr. Asma Ben Abacha, creator of MedQuad dataset, for expert guidance.
- ✓ Utilized ROUGE, BLEU metrics and conducted human surveys for doctors and patients to evaluate the model.

## GrooveGenie: A copyright-free music generator

March 2023 – June 2023

- ✓ Created an open-source music generation model, utilizing Facebook's EnCodec Transformer model to compress audio way files to an embedding that can be understood by the model.
- ✓ Trained 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.

#### **Game Genre and Recommendation Classification using Steam Reviews**

Nov 2022 - Dec 2022

- ✓ Designed data pipelines to preprocess and apply machine learning techniques to classify the game's genre, user's sentiment and finally curated a personalized game recommendation system using user reviews.
- ✓ Achieved 90.53% accuracy with RF, balanced data & TF-IDF, outperforming N-Gram, Multinomial NB, Linear SVC.

#### Divya-Drishti: An Independent Aid for the Visually Impaired

Aug 2020 - May 2021

- ✓ Achieved a 400% net cost reduction by creating a real time Voice-activated AI-IoT android application to help Visually Impaired People (VIPs) comparable to state-of-the-art OrCam in detecting currency, objects, and scenes.
- ✓ Published a <u>research paper</u> highlighting the needs of VIPs funded by the Mumbai University Minor Research Grant. SELECTED RESEARCH PUBLICATIONS

Inampudi S., **Jhaveri J.** et al., (2021) **Machine Learning Based Prediction of H1N1 and Seasonal Flu Vaccination**. Advanced Computing. IACC 2020. Communications in CIS, vol 1367. Springer, Singapore. <u>DOI.org Link</u>

Technical Skills: Python, PyTorch, TensorFlow, OpenCV, Hugging Face, Splunk, Git, Azure, AWS, Google Cloud, Firebase