

JAY JHAVERI

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EDUCATION

Masters of Computer Science University of California, San Diego (UCSD) <i>Relevant Courses:</i> Advanced NLP, Scalable Data/ML Systems, Recommender Systems, Computer Vision	Sept 2022 – Dec 2023 (Expected) CGPA: 3.95/ 4
Bachelor Of Engineering (Computer Engineering) Vivekanand Education Society's Institute of Technology (VESIT) <i>Relevant Courses:</i> Cryptography/System Security, Machine Learning, Computer Networks, Operating Systems	August 2018 – July 2022 CGPA: 9.013/ 10

INTERNSHIP EXPERIENCE

Full Stack Developer, Stealth Startup ▪ 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.	March 2023 – Present
Full Stack Development Intern, Makos Infotech ▪ 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.	June 2021 – July 2021
Data Analyst Intern, Leadingindia.ai ▪ 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.	May 2020 – June 2020
Data Analyst Intern, Núclei Technologies ▪ Applied several supervised ML algorithms such as Linear regression & random forest in R & Python to predict sales of products at specific BigMart store locations based on previous sales data.	Dec 2018 – Jan 2019

PROJECTS

GrooveGenie: A copyright-free music generator ✓ 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 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.	March 2023 – Present
Game Genre and Recommendation Classification using Steam Reviews Designed Machine Learning techniques to classify game genres and determine user recommendations such as reviews and hours played. Various models were tested, including N-gram, Multinomial NB, and Linear SVC. Random Forests with Balanced data gave the highest accuracy of 90.53%. <i>Tech Used:</i> Python, Pandas, TF-IDF, scikit-learn, TensorFlow	Nov 2022 – Dec 2022
Aatmanirbhar Sanchar: Secure Self-Sufficient Communications ✓ 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. ✓ Implemented SHA-256 and AES-256 overlapped inside an HMAC envelope to fight off any kind of cyber attacks.	June 2021 – May 2022
Divya-Drishti: An Independent Aid for the Visually Impaired ✓ 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 . ✓ Received feedback, on the android-Java app developed, by National Association for the Blind (NAB) 's members. ✓ Achieved a <u>400% net cost reduction</u> compared to products made by OrCam. ✓ Published a research paper highlighting the needs of VIPs.	Aug 2020 – May 2021

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, Cyber-Security, MS Office, Linux, Java, AWS, Google Cloud, Firebase