

JAY JHAVERI

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EDUCATION

Masters of Computer Science University of California, San Diego (UCSD) <i>Relevant Courses:</i> Advanced CV, Deep Generative Models, Computer Vision, Deep Learning, Scalable ML Systems	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> Machine Learning, Artificial Intelligence and Soft Computing, Software Development, NLP	August 2018 – July 2022 CGPA: 9.013/ 10

INTERNSHIP EXPERIENCE

Full Stack Developer, Stealth Startup <ul style="list-style-type: none">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.	Feb 2023 – Present
Full Stack Development Intern, Makos Infotech <ul style="list-style-type: none">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 product to a university alongside the founder & mentored new intern recruits working on the digitalization of the teaching process, aiming to assist colleges in operating efficiently in virtual mode	June 2021 – July 2021
Data Analyst Intern, Leadingindia.ai <ul style="list-style-type: none">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.<i>Achievement:</i> Secured First position for the mentioned research project amongst my peers.	May 2020 – June 2020
Data Analyst Intern, Núclei Technologies <ul style="list-style-type: none">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

Computer Vision Applications <ul style="list-style-type: none">Building an image captioning deep learning algorithm using a CNN-LSTM architecture using COCO dataset.Implemented edge detection and corner detection from scratch with NMS and hypothesis thresholding.Implemented SIFT feature matching with fundamental matrix using epipolar geometry and RANSAC.Implemented partially and completely bounded camera rectification with epipolar geometry.Implemented SLP, MLP and CNN using Pytorch to perform classification on MNIST dataset.Implemented U-Net to perform semantic segmentation and compared it with transfer learning on ResNet16.	Sept 2022 – Dec 2022
Divya-Drishti: An Independent Aid for the Visually Impaired Created a Voice-activated standalone IOT application using Raspberry Pi4 to help <u>Visually Impaired People</u> accurately detect Indian Currency notes, colors, and everyday objects. The project was funded under the <u>Mumbai University Minor Research Grant Program</u> . Received feedback from the members of <u>National Association for the Blind</u> (NAB). Achieved a 400% in net <u>cost reduction</u> compared to products made by OrCam. <i>Tech Used: TensorFlow, OpenCV2, Google Cloud, Raspberry Pi, Android-Java, Linux, Python.</i> <i>Achievement:</i> Published a research paper highlighting the needs of VIPs.	Aug 2020 – May 2021
Code for Change Hackathon: A Data Extraction project Developed data extracting software for <u>Global Parli Foundation NGO</u> to automate the translation of Land/Farm ownership papers' pdf originally in Devanagari Script into an editable excel sheet using OCR. <i>Tech Used: Django, Google Cloud, Html/CSS.</i> <i>Achievement:</i> Secured First position for the data extraction project amongst the 72 teams participating.	Nov 2020 - 24 hours
Automated Number Plate Recognition and Parking System Built android application connected to a Firebase server, to automate security and space availability in car parking systems by monitoring the number plates detected at the exits, utilizing already installed CCTVs at the entry and exit gates of parking lots. <i>Tech Used: Tesseract OCR, Firebase, Android-Java, Python</i>	Dec 2019 – Feb 2020

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, OpenCV2, TensorFlow, Deep Learning, SQL, Java, C, AWS, Google Cloud, Firebase	