

KHUSHI NAIK

720 W 27th St Los Angeles, California 90007 | +1(213) 656-9585 | khushhii.naik@gmail.com | LinkedIn

EDUCATION

University of Southern California	Los Angeles, California
Master of Science in Computer Science	August 2023-May 2025
• Specializing in Artificial Intelligence	
Pandit Deendayal Energy University	Gandhinagar, Gujarat
Bachelor of Technology in Information and Communication Technology	August 2019-May 2023
• GPA: 9.72/10	
• President of Fine Arts Club, Social and Cultural Committee, Co-founder of Speakers Paradise Club	

SKILLS

C, Python, Java, TensorFlow, Keras, NLTK, Scikit-Learn, Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, HTML, CSS, JavaScript, IoT, MySQL, DBMS, Docker, Natural Language Processing, Git, Calculus, Statistics, RL, POMDP, LLM

WORK EXPERIENCE

TalentServe	Mumbai, Maharashtra
AI/ML Engineer and General Management Intern	May 2022-July 2022
• Constructed a model to sort out resumes for company deploying Machine Learning algorithms	
• Utilized Support Vector Machine and improved its efficiency	

ACADEMIC PROJECTS

Little GO Game	September 2023-October 2023
• Developed a GO game for 5x5 board using alpha beta pruning and minmax algorithm	
• Ability to beat manual player as well as random, alpha beta, and q learning players	
• 95% accuracy in beating aggressive(Reinforcement Learning) player	
Skin Cancer Detection using DL and Credibility Assessment using XAI	August 2023-December 2023
• Early detection of skin cancer using CNN, ResNet50, InceptionResNetv2, and VGG16	
• Compared models using confusion matrices as well as validation accuracy, loss, recall, and ROC-AUC graphs	
• Evaluated model's credibility using SHAP(SHapely Additive exPlanations) framework	
Automated Drowsiness Detection in Car Drivers	December 2022-May 2023
• Drowsiness detection with Machine, Deep Learning, Computer Vision and IoT	
• Processed video dataset, worked with facial landmarks and normalization to fit the models for different individuals	
• Built a model to detect fatigue in car drivers and send alerts in real-time to avoid/reduce road accidents	
• Compared ML and DL algorithms by generating Confusion Matrix, F1 Score, ROC Curve and other parameters	
• Configured the best performing algorithm(MLP) to develop a real-time drowsiness detector with IoT(Link)	
Lung CT Image Segmentation	July 2022-December 2022
• Deployed Machine Learning algorithms with Computer Vision for early detection of Lung Tumor Nodules in CT images	
• Performed image segmentation and calculated the volume of tumor nodules in CT images using novel architectures U-NET, Seg- NET and K-NN with PyTorch Lightning	
• Plotted loss functions and compared the predicted results with ground truth to prove the model's credibility	
Zoo Management System	December 2021-May 2022
• Built a Database Management System using MySQL	
Website Development	December 2020-May 2021
• Developed and designed a website from scratch about the Scheduling algorithms using HTML, CSS, and JavaScript	

PUBLICATIONS

Automated Drowsiness Detection using Machine Intelligence Techniques([Link](#))
Automated Drowsiness Detection for Driver Safety: A Deep Learning-based Approach([Link](#))
IoT Technologies in Smart Environment: Security Issues and Future Enhancements([Link](#))

LEADERSHIP

Lead Editor for the Departmental Newsletter of Information and Communication Technology
Event Organizer and Fundraiser to help Underprivileged Kids of rural area