MIHIKA DAKAPPAGARI

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EDUCATION

University of Southern California	Los Angeles, USA
Masters in Science in Computer Science	August 2024-May 2026

KJ Somaiya College of Engineering	Mumbai, India
Bachelor of Technology in Computer Engineering	August 2020-May 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, Dart, C, R programming, JavaScript | **Version Control:** Git and GitHub
- **Data Science and Analytics:** Tableau and Web Scraping | **Software Tools:** Excel, Powerpoint, Android Studio, VSCode
- **Web Development:** Wordpress, HTML, CSS, JavaScript, MERN Stack, React Native, PhP, MySQL, PostgreSQL, MongoDB

PROFESSIONAL EXPERIENCE

Galaxy Office Automation Private Limited	Goregaon, Mumbai, India
Technical Intern	June 2023-August 2023

- Utilized PHP and MySQL to build APIs with an internal database
- Security and authorization were added with the help of JWT tokens, providing access to only authorized users
- Utilized Postman for API testing and played a role in managing PostgreSQL databases

K J Somaiya College of Engineering	Mumbai, India
Mobile Development Intern	February 2023-April 2023

- Developed a survey mobile application using Flutter and Dart programming language focusing on accessibility issues found at railway stations in Mumbai, also enabled users to upload images of stations, search for images of a particular station and find out the accessibility rating of a station based on recorded survey answers
- Under the guidance of the Head of the Computer Department

ACADEMIC PROJECTS

Realtime Chat Application | Express, Node, React, Chakra UI, **Rest API, MongoDb Atlas, Python**
- Created and deployed a realtime chat application using MERN Stack
- Utilized Socket.io for real time communication and stored user data in encrypted format in MongoDB
- Included features such as Authentication, Real Time Chatting with Typing Indicators, One to One Chat, Searching Users, Creating Groups, Notifications, Removing or Adding Users to Group and View User Profile

Sign Language Recognition System | OpenCV, MediaPipe, Keras, LSTM, NumPY, TensorBoard, Keras
- Designed and developed a sign language recognition system that uses mediapipe library to detect hand gestures in real-time video feed, and Keras with LSTM to train a model to recognize these gestures
- The training section involved the system reading video frames from a camera or a saved video, and using mediapipe to detect and extract hand landmarks in each frame following which, the data is organized into directories based on the type of gesture and the sequence number
- The system trains a Keras model with LSTM layers to recognize the gestures and the model is saved to disk as a JSON file and a weights file, which can be loaded and used for prediction

Personalized e-Learning System | K-means Clustering, Reinforcement Learning, React, Django, Python
- Developed an e-Learning system for predicting the user's preferred learning style with the help of K-means Clustering
- Created a data crawler to fetch open source C programming tutorials based on predicted learning style
- An adaptive quiz was created which adjusted the level of difficulty based on the user's previous answer and a reinforcement learning model was utilized to predict the module and topic of the questions where the user failed to answer proper so that the user could study and improve in those areas

EXTRACURRICULAR ACTIVITIES

- Provided voluntary and fundraising service to Suvidha Foundation' from July 2023, in raising funds for social campaigns
- Participated in the Edelweiss Hackathon by Edelweiss Group allowing collaboration with diverse teams to solve real-world problems within strict time constraints, 2023
- Demonstrated leadership and voluntary service as Event Head for Badminton during SKREAM, one of India's largest sports festivals, 2022