RESUME

VENKATESH MANCHALA

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PRODUCT DEVELOPER

PROFILE

TO SECURE A CHALLENGING POSITION IN A REPUTABLE ORGANIZATION TO EXPAND MY LEARNINGS, KNOWLEDGE, AND SKILLS.

SECURE A RESPONSIBLE CAREER OPPORTUNITY TO FULLY UTILIZE MY TRAINING AND SKILLS, WHILE MAKING A SIGNIFICANT CONTRIBUTION TO THE SUCCESS OF THE COMPANY.

TECHNICAL PROFICIENCIES

https://linkedin.com/in/venkatesh967

https://github.com/MANCHALAVENKATESH

https://venkateshmanchala.com

EDUCATION

VARDHAMAN COLLEGE OF ENGINEERING
Bachelor in Information Technology
2019-2023 CGPA: 8.0

NARAYANA JUNIOR COLLEGE(HYDERABAD)
INTERMEDIATE MPC
2017-2019 CGPA: 9.67

TELANGANA MODEL SCHOOL(SIRCILLA)
SSC
2017 CGPA: 9.0

CERTIFICATIONS

WEB DEVELOPMENT - EDUONIX,VERZEO,LGM
PYTHON – EDUONIX,GUVI
MONGODB CERTIFICATION IN MONGODB UNIVERSITY

ACHIEVEMENTS

CODE INNOVATIVE SERIES
INCUBATEIND,GITHUB
2ND - PRIZE

WORKSHOPS

GUVI – AI AND FACE RECOGNITION
QUOLLAB – DONE 4 FRONTEND PROJECTS

WORK EXPERIENCE

PRODUCT DEVELOPMENT AT DARWINBOX
JAN 2023 TO PRESENT

PROJECT- E-LEARNING AND TRAVEL BLOG USING NODEJS

IMPORT/EXPORT DOCUMENTS FROM CLOUD TO GOOGLE DRIVE/ SHARE POINT/ONDIRIVE USING YII FRAMEWORK

WEB DEVELOPER AT VERZEO EDUTECH
APRIL-2021 TO MAY-2021

PROJECT- DAILY SLEEP TRACKER

SKILLS

PROGRAMMING	: PYTHON, JAVA
BACKEND WEB TECH	: NODE.JS, PHP.YII, LARVEL
FRONEND WEB TECH	: ANGULAR.JS,REACT.JS
DATABASE	: MYSQL,MONGODB
DATASCIENCE LIB	: PANDAS,NUMPY,OPENCV
CLOUD COMPUTING	: AWS EC2,S3,DOCKER

PROJECT INFORMATION

PROJECT: E-LEARNING SYSTEM

TECHNOLOGIES: NODE.JS, MONGODB, HTML, BOOTSTRAP, CSS
DEPLOYMENT: AWS EC2 INSTANCE, DOCKER CONTAINER
DEVELOPED FEATURES:

- WEB-BASED CODING COMPILER FOR PRACTICE PROBLEMS.
- WEB COMPILER FOR HTML/CSS/JAVASCRIPT, ALLOWING USERS TO WRITE AND TEST CODE DIRECTLY IN THE BROWSER.
- LIVE CLASS FEATURE WITH INSTRUCTOR SCHEDULING AND STUDENT ACCESS VIA A CALENDAR, FACILITATING INTERACTIVE ONLINE LEARNING SESSIONS.
- ADMIN FUNCTIONALITY TO ADD INSTRUCTORS, MANAGE USER ROLES, AND OVERSEE SYSTEM OPERATIONS.
- INSTRUCTORS CAN CREATE AND MANAGE COURSES, INCLUDING MULTIPLE SECTIONS, MODULES, AND QUIZZES.
- INSTRUCTORS HAVE THE OPTION TO ENROLL IN COURSES THEMSELVES TO ENHANCE THEIR SKILLS AND UNDERSTANDING.
- STUDENTS CAN ENROLL IN COURSES, ACCESS COURSE MATERIALS, COMPLETE ASSIGNMENTS, PARTICIPATE IN QUIZZES, AND JOIN LIVE CLASSES THROUGH PROVIDED ZOOM LINKS.
- INSTRUCTORS CAN CREATE CHALLENGES FOR STUDENTS TO PARTICIPATE IN, FOSTERING COMPETITION AND ENGAGEMENT.
- STUDENTS CAN EARN GAMIFICATION BADGES BY COMPLETING COURSE ASSIGNMENTS, CHALLENGES, AND QUIZZES.
- OVERALL PROGRESS TRACKING FOR STUDENTS, ALLOWING THEM TO MONITOR THEIR PERFORMANCE AND ACHIEVEMENTS.
- THREE SEPARATE DASHBOARDS: ADMIN, INSTRUCTOR, AND STUDENT, PROVIDING CUSTOMIZED VIEWS AND FUNCTIONALITIES BASED ON USER ROLES.

PROJECT INFORMATION

PROJECT: CLOUD DOCUMENT IMPORT/EXPORT USING YII FRAMEWORK

TECHNOLOGIES: YII FRAMEWORK, PHP

DESCRIPTION:

THE PROJECT FOCUSES ON DEVELOPING A CLOUD DOCUMENT IMPORT/EXPORT SYSTEM USING THE YII FRAMEWORK AND PHP. IT ENABLES USERS, BOTH ADMINISTRATORS AND EMPLOYEES, TO SEAMLESSLY IMPORT AND EXPORT DOCUMENTS FROM VARIOUS CLOUD STORAGE PLATFORMS. THE APPLICATION STREAMLINES THE PROCESS OF IMPORTING COMPANY-APPOINTED DOCUMENTS, SUCH AS PAYSLIPS AND OFFER LETTERS, TO CLOUD STORAGE PLATFORMS LIKE GOOGLE DRIVE AND ONEDRIVE. ADDITIONALLY, IT ALLOWS USERS TO EXPORT DOCUMENTS, SUCH AS AADHAAR CARDS AND PAN CARDS, TO THE COMPANY'S AMAZON S3 CLOUD STORAGE. THE SYSTEM EMPHASIZES SECURITY AND CONVENIENCE WHILE LEVERAGING THE YII FRAMEWORK'S CAPABILITIES. **KEY DEVELOPED FEATURES:**

ADMIN FUNCTIONALITY:

- **PRIVILEGES TO MANAGE AND ADD DOCUMENTS FOR EMPLOYEES.**
- **ABILITY TO DEFINE DOCUMENT TYPES AND CATEGORIES.**
- **DOCUMENT APPROVAL AND REVIEW PROCESSES.**

EMPLOYEE FUNCTIONALITY:

- **ACCESS TO IMPORTED DOCUMENTS ASSIGNED BY THE COMPANY.**
- **SELECTION AND IMPORT OF DOCUMENTS TO PERSONAL CLOUD STORAGE PLATFORMS (E.G., GOOGLE DRIVE, ONEDRIVE).**
- **BULK IMPORT/EXPORT CAPABILITIES FOR MULTIPLE DOCUMENTS SIMULTANEOUSLY.**
- **INTEGRATION WITH COMPATIBLE SLEEP TRACKING DEVICES FOR**

PROJECT: DAILY SLEEP TRACKER

TECHNOLOGIES: PHP,MYSQL,HTML,CSS,BOOTSTRAP,XAMPP

DESCRIPTION:

- THE DAILY SLEEP TRACKER IS A WEB-BASED SYSTEM DESIGNED TO HELP USERS TRACK THEIR SLEEP PATTERNS AND MONITOR THEIR SLEEP QUALITY OVER TIME. THE SYSTEM FOCUSES ON CREATING AN INTUITIVE AND USER-FRIENDLY INTERFACE FOR A SEAMLESS USER EXPERIENCE.**ADMIN FUNCTIONALITY TO ADD INSTRUCTORS, MANAGE USER ROLES, AND OVERSEE SYSTEM OPERATIONS.**

KEY FEATURES:

- **SLEEP DATA LOGGING: USERS CAN MANUALLY LOG THEIR SLEEP DATA, INCLUDING SLEEP DURATION, START AND END TIMES, AND ANY ADDITIONAL NOTES.**
- **DEVICE COMPATIBILITY: THE SYSTEM ALLOWS USERS TO IMPORT SLEEP DATA FROM COMPATIBLE SLEEP TRACKING DEVICES FOR AUTOMATED DATA ENTRY.**
- **SLEEP REPORTS AND INSIGHTS: USING THE COLLECTED DATA, THE SYSTEM GENERATES INFORMATIVE REPORTS AND INSIGHTS INTO THE USER'S SLEEP HABITS.**
- **SLEEP DURATION: THE SYSTEM CALCULATES AND PRESENTS THE USER'S SLEEP DURATION, PROVIDING AN OVERVIEW OF HOW LONG THEY SLEEP EACH NIGHT.**
- **SLEEP EFFICIENCY: THE SYSTEM MEASURES SLEEP EFFICIENCY BY ANALYZING THE DURATION OF UNINTERRUPTED SLEEP COMPARED TO THE TOTAL TIME SPENT IN BED.**

MAJOR PROJECT IN COLLEGE

PROJECT: CRIMINAL FACE DETECTION SYSTEM USING LBPH CLASSIFIER AND FISHERFACE ALGORITHM.

TECHNOLOGIES: PYTHON, OPENCV, SCIKIT-LEARN, NUMPY, TKINTER

DESCRIPTION:

- THE CRIMINAL FACE DETECTION SYSTEM AIMS TO IDENTIFY AND RECOGNIZE CRIMINAL FACES USING THE LBPH AND FISHER FACE ALGORITHMS. THE SYSTEM FOLLOWS THE STEPS OUTLINED BELOW:
- CAPTURING FACES: THE SYSTEM CAPTURES FACES FROM A TRAINING VIDEO USING THE HAARCASCADE_FRONTALFACE_DEFAULT.XML FILE FOR FACE DETECTION.
- FACE DETECTION: THE CAPTURED FACES ARE PROCESSED TO DETECT THE FACIAL FEATURES USING THE HAARCASCADE_FRONTALFACE_DEFAULT.XML FILE.
- FEATURE EXTRACTION: THE SYSTEM CREATES 128-DIMENSIONAL EMBEDDINGS, ALSO KNOWN AS FEATURE VECTORS, FOR EACH FACE IN THE DATASET. THESE EMBEDDINGS ARE STORED IN THE ECI.PICKLE FILE.
- ENCODING DATASET: THE SYSTEM ENCODES THE DATASET BY ORGANIZING THE IMAGES INTO DIFFERENT FOLDERS BASED ON THE COMPARISON OF FEATURE VECTORS USING THE DBSCAN CLUSTERING ALGORITHM.
- MODEL TRAINING: THE SYSTEM TRAINS THE "LBPHFACERECOGNIZER" AND FISHER FACE MODELS USING THE LABELED IMAGES OBTAINED FROM THE PREVIOUS STEP.
- FACE RECOGNITION (TRAINING): USING THE TRAINED MODELS, THE SYSTEM PERFORMS FACE RECOGNITION ON THE CHARACTERS' FACES IN VIDEO STREAMS.
- FACE RECOGNITION (TESTING): USING THE "LBPHFACERECOGNIZER" AND FISHER FACE MODELS, THE SYSTEM RECOGNIZES THE FACES OF THE CHARACTERS IN VIDEO STREAMS.
- THE SYSTEM IS DEVELOPED USING THE TKINTER FRAMEWORK FOR CREATING A USER-FRIENDLY GRAPHICAL USER INTERFACE. TO REGISTER A CRIMINAL, AT LEAST 10-20 IMAGES OF THE INDIVIDUAL NEED TO BE UPLOADED AND USED FOR TRAINING. THE TRAINED MODELS ARE THEN USED FOR RECOGNIZING THE REGISTERED CRIMINAL'S FACE IN BOTH IMAGES AND VIDEO STREAMS.

KEY FEATURES:

- FACE CAPTURING AND DETECTION FROM A TRAINING VIDEO
- FEATURE EXTRACTION AND EMBEDDING CREATION USING LBPH ALGORITHM
- ENCODING AND CLUSTERING OF IMAGES BASED ON FEATURE VECTORS
- TRAINING OF MODELS USING LBPH AND FISHER FACE ALGORITHMS
- FACE RECOGNITION IN BOTH IMAGES AND VIDEO STREAMS
- USER-FRIENDLY GRAPHICAL USER INTERFACE (GUI) DEVELOPED WITH TKINTER.