VAIBHAVI INGLE
UG Second Year: BCA- Computer Science

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OBJECTIVE

Seeking a responsible position in an organization which gives me a chance to improve my knowledge, enhance my skills and enable me to strive towards the overall development of the organization.

KEY PROJECTS:

Project Name #1: Customised Virtual File System
Technology: C Programming
Description:

- This project provides all functionality to the user which is same as Linux File System.
- It provides necessary commands, system calls implementation of file system through customised shell.
- In this project we implement all necessary data structures of file systems like Incore Inode Table, File Table, UAREA, User File Descriptor Table.
- This project uses every system level functionality of Linux Operating System on any other operating system platforms.

Project Name #2: Customised Database Management System
Technology: C Programming
Description:

- This project provides the emulation of all the facilities and functionalities provided by the Database Management System.
- For emulation purpose we create parser to parse SQL queries.
- Each query gets handled explicitly with constraints and aggregate functions.
- This project provides own customised shell to interact with the customised Database Management System.

Project Name #3: Generalised Data Structure Library
Technology: C++ Programming
Description:

- This project is considered as a Library which contains generic implementations of all major type of Data Structures.
- It provides the readymade implementations of all fundamental operations as well as advanced operations on linear, non-linear Data Structures in an object-oriented way.
- It also provides the generic way of implementation so we can use the functionality for any type of data types.
- All the object-oriented design policies are used in this project.

Project Name #4: File Packer Unpacker with Encryption
Technology: Java Programming
Description:

- This project provides the facility of packing and unpacking the regular files.
- In case of packing activity, all the data of multiple regular files gets stored in single file with all related metadata.

- In case of Unpacking activity, the data from the packed file gets extracted in the separate file with all necessary details.
- To maintain security of the data we provide encryption and decryption techniques.
- This project provides graphical user interface to interact with the application.

Project Name #5: Chat Messenger with log facility
Technology: Java Programming
Description:

- This project provides the chatting facility for peer-to-peer communication.
- The project uses Java socket programming to perform the text-based chatting.
- It also maintains the log which contains all the chatting details with the periodic fashion.
- This application is platform and architecture independent.

Project Name #6: Periodic Process Logger with Auto Scheduled Log Report Facility
Technology: Python Programming
Description:

- This application is developed in Python.
- This project automate process log activity.
- This project creates a log file with the current time and store information about all running processes as its name, PID, memory usage, thread count number of child process.
- This automation script executes periodically depends on the time specified by the user using scheduler of Python.
- After periodic execution it sends the log file to the specified email address.

Project Name #7: Directory Duplicate Files Removal with Auto Scheduled Log Report Facility
Technology: Python Programming
Description:

- This application is developed in Python.
- This project automates log activity.
- This project removes all duplicate files found in a directory and creates a log file within the directory and stores information about all the duplicate files found and removed.
- This automation script executes periodically depends on the time specified by the user using scheduler of Python.
- After periodic execution it sends the log file to the specified email address.

Project Name #8: Titanic Survival Predictor
Technology: Supervised Machine Learning with Logistic Regression using Python Programming
Description:

- There is a data set that contains information about all passengers from titanic such as passengers name, age, seat number, ticket price, height, floor etc.
- Data from the data set is cleaned by removing unnecessary entries and columns.
- Logistic Regression technique is used to train the dataset and predict whether the passenger survives or not depending on its concerned data entries.

TECHNICAL SKILLS:

Programming Languages:

Procedural language: C Programming.

Object Oriented Programming: C++ Programming, Python Programming.

Virtual Machine based Programming: Java Programming.

IDE & Tools: PyCharm, Visual studio Code, IntelliJ, Notepad++.

Database: MySQL.

Operating System: Windows NT, Linux Distributions.

Python : Python 3.0

Python Libraries: Numpy, SciPy, Scikit-Learn, Pandas, Matplotlib.

MACHINE LEARNING CASE STUDIES:

- Iris Species classification using Decision tree algorithm
- Ball classification using Decision Tree algorithm
- Iris Species classification using K Nearest Neighbour algorithm
- Breast Cancer Detection using Random Forest algorithm
- Play predictor application using Linear Regression
- Head Brain size predictor using Linear Regression
- Diabetes detector using Linear Regression
- Wine type classifier using K Nearest Neighbour

HIGHLIGHTS:

- Experience in application development using C, C++, JAVA, Python.
- Experience in Algorithm designing.
- Experience in application development using Procedural as well as Object Oriented manner.
- Experience in writing Web Automation, File system Automation, Process Automation scripts with periodic scheduling and logging activity using Python.
- Proficient in Machine Learning skills for multiple types of applications.
- Experience in handling, analysing different type of datasets.
- Strong coding ability both in producing clean and efficient code as well as debugging and understanding large code bases.
- Experienced use of modern source code control (Git).
- Sound knowledge of operating systems internals.
- Good analytical and problem-solving skills.

EDUCATIONAL QUALIFICATION:

Examination	University	Institute	Year	%
Graduation	Dr.Babasaheb Ambedkar Marathwada University	Ankushrao Tope Mahavidyalaya, Jalna	2022	79.43
Intermediate/+2	Maharashtra State Board of Secondary and Higher Secondary Education	Adarsh Junior College, Ahmednagar	2020	82.00
Matriculation	Maharashtra State Board of Secondary and Higher Secondary Education	St Mary's High School, Jalna	2018	90.60

PERSONAL INFORMATION:

- Date of Birth: 02/05/2003
- Father’s Name: Dinesh Ingle
- Marital Status: Single
- Nationality: Indian
- Expected Graduation Date : June 2024

The above-mentioned information is authentic to the best of my knowledge.