ATHARVA KINAGE

STUDENT

CONTACT

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SKILLS

- Programming : C (proficient), Python (proficient) , C++, R
- Development : HTML/CSS, Javascript
- Database : MySQL, MongoDB
- Familiar with MERN stack , OpenCV, Assembly, verilog, Rust

EDUCATION

B.Tech

PES University

2022 - 2026
Computer Science Engineering (5th Sem).
CGPA - 8.67

BGS NPS

2013 - 2022

CBSE Class XII – 2022 (95.6%)
CBSE Class X – 2020 (93.8%)

CO-CURRICULAR

Association of Computing Machinery (ACM) - Member
I have headed and helped in events in the operations and tech maintainer domains for Hacknight and other workshops.
AIEP (ACM Industrial experience program)
Explored aviation through the design and simulation of UAV
VEGAVATH
Designing parts of a Go-kart and Optimizing the kart based on given rule book
HACKERRANK
Problem solving(intermediate) certification.

EXTRACURRICULAR

Volleyball : CBSE Clusters State level
Sketching : Hashtag Kalakar Arts and Painting competition rank 37 (All india)

PROFILE

I am a 5th-semester Computer Science Engineering student at PES University, dedicated to both academic achievement and extracurricular engagement. I am passionate about leveraging technology to address and solve complex problems and driven by curiosity to explore innovative solutions. Outside of academics, I play volleyball at the state level and have a passion for sketching, which reflects my commitment to teamwork and creativity.

PROJECTS

Planetary motion simulation — 2024

- Developed a simulation of a solar system using the raylib graphics library featuring a sun and multiple orbiting planets and moons.
- Implemented orbital mechanics to simulate planet and moon movement based on random speed and distance parameters.
- The system supports hierarchical planet/moon relationships
- Utilized C++ for object-oriented programming, leveraging classes, vectors, and recursive function calls for the generation of planets and moons at various levels

Predictive analytics for early lung cancer risk using Machine Learning — 2024

- This research employs machine learning methods to enhance early lung cancer detection using a detailed synthetic dataset. (A team project of 4 members)
- Feature selection and reduction algorithms (PCA, BSO, RFE, SelectK) were implemented, and ML models (Xgboost, SVM, Catboost, and KNN) were trained and performances were compared.
- Implemented in python using scikit-learn, numpy, pandas.

Interpreter for R programming language — 2023

- Built a basic interpreter for R programming language using Python's PLY (Python Lex-Yacc) library
- uses recursive descent parsing with right recursion
- The project is designed to tokenize and parse input source code and recognize the syntax of the language.

Hospital finder — 2021-22

- Built an application that locates and shows hospitals nearby the address specified. Works by calculating the distance between the user specified address and the hospitals through the latitudes and longitudes obtained using the geopy module in python.
- Built in python using SQL connectivity for a robust login system.

WORK EXPERIENCE

CODMAV (Center of Data Modelling and Visualization) PESU

I worked in the CODMAV Research Center at the university with a team of 4 members, where we worked on a ML project under a mentor. Conducted comparative analysis on multiple feature selection and reduction algorithms and ML models. Currently writing a research paper on this project. My role was to research and identify the preprocessing steps in the dataset and implement feature reduction and also i was involved in selecting and implementing the ML models and visualizing the results through various graphs.