Atharva Kinage

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Profile

I am a 6th-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.

Education

PES University, B.Tech in Computer Science   2022 – 2026
- GPA: 8.91

BGS NPS, CBSE   2013 – 2022
- Class XII: 95.6%
- Class X: 93.8%

Technologies

Programming Languages: Python, C, C++, R, JavaScript, Kotlin

Big Data Technologies: Hadoop, Kafka, Spark

Frameworks & Tools: Git, MongoDB, MySQL, Redis, React, Next.js, Tailwind CSS, Android Studio, HTML/CSS

Projects

YADTQ - Yet Another Distributed Queue
- Developed a distributed task queue that coordinates between multiple workers in a highly distributed setup. This system uses kafka as a communication service and redis as the data store.
- Implemented a yadtq module in python with functions for configuration of kafka, client side functionality that includes functions to send tasks and fetch results and worker side functionality that includes functions to receive tasks, get current status and update status.
- Implemented hearbeat functionality for the workers sending a heartbeat every 5 seconds and shell script for creating the topic with the required partitions.
- Tools Used: Python, Redis, Kafka, Shell

Dynamic Signature Capture Android App
- Developed an android application in kotlin to capture dynamic signature metrics that includes velocity, acceleration, and pressure, for forgery detection.
- Implemented a custom canvas to collect real time signature data and save the results as structured files - images and csv files for metrics, to be used for dataset preparation and further advanced analysis.
- Used adb to pull the files into the required directory to overcome the android storage access challenge.
- Tools Used: Kotlin, Android Studio

My-fzf
- Developed an interactive file navigation and management script using powershell and fzf fuzzy finder
- Implemented key bindings for dynamic file and directory filtering, previewing and operations
- Integrated the system commands for interactions, enabling directory navigation, file editing and deletion
- Tools Used: powershell

Experience

Intern, CODMAV (Centre of Data Modelling and Visualization) – PESU   June 2024 – July 2024
- Worked on a ML project under a mentor - Predictive analytics for early lung cancer risk using Machine Learning

- Conducted comparative analysis on multiple feature selection and reduction algorithms and ML models
- Conducted research and identified the preprocessing steps in the dataset and implemented feature reduction and also selected and implemented the ML models and visualized the results using various graphs.

Co-Curricular

ACM (Association of Computing Machinery) - Member
- Head of operations for flagship hackathon - Hacknight in campus
- Maintainer in Hacknight: Maintained the Simul8 repo containing simulations in raylib and mentored students.

AIEP (ACM Industrial Experience Program)
- Explored aviation through the design and simulation of UAV

Vegavath - Member
- Designing part of a Go-kart and optimizing the kart based on given rule book

Extracurricular

Sports
- School volleyball Team Vice-Captain
- CBSE Clusters State Level participant

Sketching
- Hashtag Kalakar Arts and Painting competition rank 37 - All India