# PRATYUSH SINHA

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## EDUCATION

| 2023 | **PES University, Bachelors in Computer Science** <br> **Expected Graduation:** 2027 | **First Year** <br> **Cumulative CGPA:** 7.34 |
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## PROJECTS

**Memorease - Android app for Alzheimer patients**

Frameworks used : React Native, Expo, Gemini API, Firebase, Google Maps API,

- Created an app for people with early-onset dementia, Alzheimer's, or memory challenges
- Created features like location tracking, timely reminders, text-to-speech, and language control for journaling
- Created a caretaker-patient admin system for monitoring patient activity in real-time
- Went to several Alzheimer-Dementia centers with real feedback from patients and trained psychologists

**Testing Platform for Iterated Prisoner's Dilemma Strategies**

Frameworks used : Python, numpy, pandas,

- Created a tournament system to test different strategies under Game Theory's Iterated Prisoner's Dilemma
- Implemented different custom variables to edit and test strategies on
- Placed 5th at APOGEE 2024

**Paper Trading platform with multiple strategy implementation and Backtesting**

Frameworks and Libraries: yfinance, pandas, numpy,

- Created a platform where user can do paper trading on the indian or american market
- Used Web Scraping and VADER model for sentiment analysis of a stock
- Implemented Simple Moving averages, Exponenetial moving averages and various Value Investing Formulae
- Created Backtester based on historical data of markets

**Chess Game and Engine**

Frameworks used : Python, Pygame, pandas,

- Developed core logic and animations for moves and highlights
- Created a Chess Engine rated around 1300 usable directly through the game logic using weighted squares
- Added additional animation and utilized Monte Carlo tree Search in search of best move

## CO-CURRICULAR ACTIVITIES

**Chess**

PES Chess Team,

- First Place at Chess tournament in St. Joseph's University 2023
- Runner's Up at Devadan Cup 2023, hosted at Christ Kengeri Campus
- Rated 1613 FIDE Classical

**Quiz Head**

Code Warriors (Tech Club), DPS Vasant Kunj

- Organized intra school events in the domain of **Tech Quiz** and **Science Quiz**
- Organized the club's flagship event **soBig** (**500+ participants nationally**)
- Hosted the **Code Wars 2022's**Quiz (an inter school Tech Quiz event)

## COURSEWORK

Introduction To Programming I (Python with Object Oriented Programming) and II (Problem Solving with C),Mathematics I and II, Digital Logic Design, Electronics and Information Technology

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, C, SQL, HTML5, CSS3, JavaScript
**Tools and Frameworks:** Git, Numpy, Pandas, React Native, Expo, MongoDB, Conda