Daathwi Naagh

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Skills

Languages: Python, C/C++, MySQL, JavaScript, HTML/CSS, .
Libraries and Frameworks: Flask, Qt, Pandas, NumPy, Matplotlib, SciPy, scikit learn
Developer Tools: Git, Visual studio, Github, Figma (UI/ UX), LaTeX
Quantitative Research: Probablity & Statistics, Pattern Recognition, Data analysis & modelling
Additional Skills: Algorithms, Object Oriented Programming, Socket Programming, Linux Shell Scripting.

Projects

Biometrics (Keystroke dynamics) analysis and prediction Feb. 2023 – Apr. 2023

Academic Research Project

- Analysed the datasets, data preprocessing and identified the unique features of keystrokes.
- Tested, compared various ML algorithms & implemented the best algorithm that works with 97% accuracy
- Calculated performance of the algorithm by measuring TRR, FAR, TAR, FRR.
- Correlated the performance of algorithm and variables by drawing ROC curve.
- Tech Stack: NumPy, Pandas, Matplotlib, scikit learn, Jupyter Lab.

Artificial Intelligence (TARS) Unbeatable 3D Tic-Tac-Toe Game Bot Mar. 2023 – Apr. 2023

Academic Course Project

- Designed TARS (AI) with 1000 lines of code that plays against the player optimally with 99% accuracy.
- Customised the challenging user interface (GUI) to present the 3 Dimensional board to the player.
- Implemented **Minimax** algorithm and optimized the algorithm through **alpha-beta pruning**
- Reduced the algorithmic time complexity by 75% than the complexity of brute force algorithm.
- Tech Stack : PyQt5, Python, AI (Minimax algorithm, alpha - beta pruning.)
- Link : https://github.com/datvi-031/TARS—The-AI

Smart Dustbin for Segregating Dry & Wet waste. Jan, 2023 - Apr, 2023

Interdisciplinary project

- Collaborated and led a team of interdisciplinary students and developed Smart dustbin.
- Developed a new strategy for detecting wet waste and dry waste that works with accuracy of 92%
- Implemented the code and reduced the time delay across working of sensors and movement of data by 68%
- Secured a prestigious spot at the *Ehipassiko - Industry Open House Event, 2023.*
- Contributed our project for *National ARIIA Ranking*
- Tech Stack : Arduino, Embedded C Programming, Sensor Technology, Mechanical and Product Design.

Education

Indian Institute of Information and Technology, Design & Manufacturing Chennai, India
Bachelor of Technology in Computer Science and Engineering *Dec. 2020 – Present*

Sri Chaitanya Educational Institutions Vijayawada, India
Board of Intermediate Education - MPC *Jul. 2018 – Mar 2020*

Achievements and Activities

- Secured All India Rank : *9213* in *GATE Computer Science* in the prefinal year.
- Won the senior competitive programming contest at Vashist by implementing efficient algorithms.
- Fixed bugs from a large codebase in Bug-Hunt at *Vashist* demostrating software testing skills.
- Increased samgatha entry ticket sales by 30% through effective promotion and sales tactics as a *Publicity Volunteer*
- Collaborated with a partner and *pitched the innovation* of self steering bullets including market research and product design in the entrepreneurship club at Vashist.
- Assisted the team as a *Math Mentor* and *Content Writer* at Vidhai, IIITDM, for concepts of probablity.