SONI ARYA

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https://aryaportfolio-mu.vercel.app/

EDUCATION

PES University   *Bangalore, India*
                                                                                2022-2026
Bachelor of Technology in Computer Science and Engineering
GPA: **8.38/10.00.**
Relevant Coursework: Data Structures and Algorithms, Web Development, Operating System, Computer Networks, Big Data, Machine Learning, Data Analytics, Cloud Computing, Generative AI, Database Management System, Compiler Design
Awards: **CNR Rao Scholarship , MRD Scholarship (awarded to top 20% students in university), 2 Distinction awards**

SKILLS

Languages: C, C++, Python, HTML5, CSS3, Javascript, SQL

Tools and technologies: MySQL, MongoDB, Apache Hadoop, Apache Spark, Apache Kafka, NumPy, SciPy, SpaCy, OpenCV, React.js, Node.js, Git, Github, Pandas, Sklearn

EXPERIENCE

Micro Orbit Consulting Services   *Gujarat, India*
Software Development Intern   *May 2024-August 2024*
- Engineered a user-friendly web application that streamlined design project submissions for a Belgium interior design firm, reducing submission errors by 35% and enhancing client satisfaction ratings by 15%.
- Implemented features like interactive project tours, advanced search functionality and interactive 360-degree project views.

PROJECTS

1. **Developing Adaptive Self-Driving Cars Using Liquid Neural Networks and Reinforcement Learning**
   Ongoing   *CARLA, Liquid Neural Networks, DDPG, CNN*
   - Developed an adaptive self-driving system using Liquid Neural Networks and Reinforcement Learning for dynamic decision making.
   - Designed a hybrid framework integrating CNN-based semantic segmentation, uncertainty analysis, and DDPG-based RL for efficient navigation.

2. **Yet Another Distributed Task Queue (YADTQ)**   *Link*
   November 2024   *Apache kafka, Redis, Python, Tkinter*
   - Developed YADTQ, a scalable task queue system enabling concurrent execution with prioritization, retries, and failure handling.
   - Optimized load balancing and dynamic worker assignment, reducing task delays by 30% while ensuring seamless integration.

3. **IoT-Based Safe Lock System with OTP Verification and CCTV Surveillance**   *Link*
   April 2024   *Raspberry Pi OS, Flask, HTML, RPi.GPIO, SSH, Socket Programming, OpenCV*
   - Developed an IoT-based safe lock system using Raspberry Pi with IR sensor-triggered object detection and OTP verification.
   - Integrated IP-validated OTP access, dual-function keypad, and CCTV footage capture, reducing unlock time by 40%.

4. **Real-time fraud detection in digital transactions**   *Link*
   January 2024   *React Native, Node.js, MongoDB, NLP using SpaCy and PyMongo module*
   - Developed an NLP-based real-time fraud detection system, reducing false positives by 35% and preventing 65% of fraud cases.
   - Designed an algorithmic framework analyzing user data across five key metrics to enhance security and trust.

CERTIFICATIONS

- Arithmenia 3.0 runner up certificate (Conducted at PESU RR campus)
- Healthack participation certificate (Conducted at PESU RR campus)
- Hack4Soc participation certificate (Conducted at RVCE)
- Override'22 participation certificate (Conducted at PESU EC campus)
- Runner up in intra-college Badminton tournament
- Badminton state level tournament participation certificate

LEADERSHIP AND VOLUNTEERING EXPERIENCE

SAHAI INDIA   *Remote*
Design Team   *March 2024-November 2024*
- Designed visual content for campaigns, social media, and promotional materials
- Collaborated with the team to maintain a consistent and engaging brand identity

Codechef PESUECC   *Pesu EC Campus*
Technical Core Team (Cpp)   *August 2024-May 2024*
- Assisted in developing and maintaining technical projects for the club
- Collaborated with the team to troubleshoot issues and improve digital solutions