

SONI ARYA

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EDUCATION

PES University 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	<i>Bangalore, India</i> 2022-2026
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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 Software Development Intern • 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.	<i>Gujarat, India</i> May 2024-August 2024
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PROJECTS

1. Developing Adaptive Self-Driving Cars Using Liquid Neural Networks and Reinforcement Learning Ongoing • 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.	<i>CARLA, Liquid Neural Networks, DDPG, CNN</i>
2. Yet Another Distributed Task Queue (YADTQ) November 2024 • 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.	Link <i>Apache kafka, Redis, Python, Tkinter</i>
3. IoT-Based Safe Lock System with OTP Verification and CCTV Surveillance April 2024 • 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%.	Link <i>Raspberry Pi OS, Flask, HTML, RPi.GPIO, SSH, Socket Programming, OpenCV</i>
4. Real-time fraud detection in digital transactions January 2024 • 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.	Link <i>React Native, Node.js, MongoDB, NLP using SpaCy and PyMongo module</i>

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 Design Team • Designed visual content for campaigns, social media, and promotional materials • Collaborated with the team to maintain a consistent and engaging brand identity	<i>Remote</i> March 2024-November 2024
Codechef PESUECC Tech Team (Cpp) • Assisted in developing and maintaining technical projects for the club • Collaborated with the team to troubleshoot issues and improve digital solutions	<i>Pesu EC Campus</i> August 2024-May 2024