

AYUSH SINGH RATHORE

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Work Experience

- **Frontend Developer & Machine Learning Intern** Aug 2024 - Present
CheckExplore
– Designing & implementing the **front-end** and establishing the Fast API request for an AI tool streamlining defect identification in tyre manufacturing, reducing inspection time for the manufacturers.
– Evaluating body splice and blister detection in tyres using **YOLO v 8** model, and incorporating results by labeling the dataset to train the model.
- **Campus Automation Student Lead** Mar 2023 - Sep 2023
SRM University - AP
– Spearheaded **campus automation**, an initiative aimed at automating the University's tasks, resulting in a 90% reduction in task completion time and streamlined University operations.
– Architected and implemented a solution for **Out-pass Booking** which has benefitted over **3,000 students**.

Projects

- **Health Lens: Healthcare Platform — React, Fast API, Firebase, Python, Google-AI Studio** *Project Link*
– Developed **lung disease severity prediction** using the existing Machine Learning model with the x-rays images trained dataset, a model to detect **Covid 19 & Pneumonia** by the chest x-ray images.
– Designed the **interface**, integrated the model and implemented the **firebase authentication**.
- **Athena: P2P Lending Platform — React, Solidity, Web3js, Infura-API, Ethereum** *Project Link*
– Engineered P2P Lending Platform by integrating the web technologies with web3 frameworks, utilized Ethereum Blockchain along with the basics of finance.
– Adopted the concept of credit score and applied it to the Web3 ecosystem using the smart contract to implement the logic.
- **Decentralized-voting-by-bio-metric-authentication — Solidity, Web3.py, Python, Raspberry-PI** *Project Link*
– Constructed **Voting System** using **bio-metric authentication**, ensuring secure processes using **web3.0 protocols**.
– Executed **blockchain technology** in voting to enhance **trust and transparency** using the 2 step verification process.

Technical Skills

- **Programming Languages:** JavaScript, Python, Solidity, C/C++, SQL
- **Web Development:** HTML, CSS, ReactJs, Tailwind CSS, Web3Js, Ethers, Web3.py, Ethers.py, NodeJs, Express, FastAPI, Flask
- **Tools & Technologies:** Firebase, Git, Linux (Ubuntu & Kali), Raspberry Pi, OpenZeppelin Contracts, TCP/IP protocols, Network security protocols, Hardhat, Ethereum, Blockchain, ERC721, Smart Contracts

Education

- **SRM University, Andhra Pradesh** Sep 2021 - Jul 2025
Bachelor of Technology in **Computer Science and Engineering**
CGPA: 7.5
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Computer Networking, Database Management, Network Security

Leadership / Extracurricular

- Served as a member of the **Academic Council** at the University for a duration of 1 year, Established the **Student Academic Committee**, fostering collaboration and boosting student engagement by **40%** & redesigned curriculum across **3 schools**, ensuring **100% implementation and alignment with industry standards**.
- Organized the **first National-level Technical & Cultural fest** of the University, with footfall over **7000 attendees**.
- Secured a track prize in a **national level hackathon** for designing a decentralized informal lending and borrowing platform.