Rithwik S Bharadwaj

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Education

Sri Jayachamarajendra College of Engineering (JSSSTU), BE in Electronics and Instrumentation
Sept 2023 – Sept 2027
- GPA: 8.74/10.0

Experience

Co-Founder, Freshiance
May 2018 – May 2024
- Led 100+ Volunteers to succesfully operate and execute Esports events
- Handled all live broadcasting technology
- Built and managed organization website
- Built discord bots with discord.py and Discord API

Projects

Sign Language Recognition
View Project
- Hackathon winning project which recognizes common phrases of Indian Sign Language
- Feature to compare hand gesture with reference hand gesture video and get an accuracy score
- Machine Learning model with 84.21 percent accuracy and trained on 20000+ parameters
- Tools Used: PyTorch, OpenCV, Mediapipe, Scikit-learn

LegaDoc
View Project
- Built an ML-powered tool to analyze legal documents for compliance issues
- Applied NLP techniques to identify missing or weak contractual clauses
- Implemented secure user access and file uploads using JWT authentication
- Tools Used: ReactJS, FastAPI, PyMuPDF

CodeCollab
View Project
- Real-time code collaboration with syntax highlighting for multiple languages.
- Built-in video call for face-to-face collaboration.
- Integrated chat panel for quick discussions and sharing code snippets
- Create, join, and delete rooms. Only room owners can delete their rooms.
- Tools Used: ReactJS, Flask, Socket-IO, WebRTC

Skills

- **Programming Languages:** Python, C++, JavaScript
- **Frameworks/Libraries:** HTML5, CSS3, PyTorch, ReactJS, Scikit-Learn, FastAPI, Flask
- **Technologies:** NoSQL, RESTful APIs, PostgreSQL, Linux, Git/GitHub, LangChain, AWS, Docker
- **Concepts:** Machine Learning, Generative AI, Data Structures and Algorithms (DSA), Object Oriented Programming (OOPs), Operating Systems (OS), Database Management System (DBMS), CI/CD Pipelines

Activities and Achievements

- Winner of Infothon 4.0 - National Level Hackathon at Vidyavardhaka College of Engineering
- Participated in 5+ National Hacakthons
- Winner of Kayaka 2024 and 2025 (Mock Placement Competition organized by Department of Information Science and Engineering, JSSSTU)
- ML Lead at DSC-JSSSTU (formerly Google Developer Student Club) and ML Co-Lead at CSI-JSSSTU