



INESH DHEER

UNDERGRADUATE RESEARCHER, LTRC (IREL)

CONTACT

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🌐 <https://idheer.github.io/>

SKILLS

- Programming Languages: C, C++, Python, JavaScript, SQL, Assembly Language, RUST
- Web Development: HTML, CSS, Tailwind CSS, MERN Stack (MongoDB, Express.js, React.js, Node.js), Flask, FastAPI, Next.js
- Embedded Systems: Arduino, ESP32 programming
- Version Control: Git & GitHub
- Generative AI: Modern AI models and frameworks like LangGraph
- Creative Tools: Adobe Premiere Clip, Autodesk Fusion 360 for 3D design

PROJECTS

- Developed a C-based Shell with custom command execution.
- Built a full-stack Buy/Sell Web Platform for item listings and transactions using the MERN stack.
- Designed a Rust-based Command Line Interface (CLI) for food intake tracking and nutritional analysis.
- Engineering an Agentic System to automate experiment creation for Virtual Labs.
- Developing a Full-Fledged web application for BREVITO, a Mumbai-based beverage startup, supporting real-time orders and product management.



PROFILE

I am a dedicated and driven individual from Chandigarh, India, with a passion for technology and continuous learning. With a strong academic background and consistent achievements, I have demonstrated excellence through my work and projects. Alongside technical expertise in programming, web development, and AI, I actively contribute to research, tackling complex challenges with innovative solutions. A hardworking and adaptable team player, I approach challenges with a proactive mindset, always ready to grow. My hobbies, including powerlifting, bodybuilding, photography, and music, reflect my well-rounded personality and dedication to personal development.



ACHIEVEMENTS

- Secured AIR 54 in IIIT Hyderabad's UGEE.
- Ranked in the 99th percentile in JEE Mains, with a perfect 100th percentile in Physics.
- Excelled academically with 97.4% in 10th boards and 94% in 12th boards.
- Recognized as an NTSE Stage 1 scholar with a top 5 UT rank.
- Earned numerous accolades, including 26 gold medals, 12 silver medals, and 1 bronze medal in SOF Olympiads.
- Achieved zonal rank 1 in the Green Olympiad 2018.
- Secured a top 3 finish in a French photography competition organized by Alliance Française at the UT level.
- One of the youngest TEDx speakers from school.
- Won the Outcome Based Solution award in the HackIIIT Hackathon for developing a mental health assistant app called Saathi
- **Research Achievements:**
- Contributed to research with a paper on Pre-Deployment Calibration Framework for Low-Cost Gas Sensors in IEEE Sensors Letters publication in the IoT domain with CVEST Lab, IIIT Hyderabad.
- Currently working on another research paper on Bilinear Interpolation model for Gas Sensors with CVEST Lab, IIIT Hyderabad.
- Presented our work on Prompt Enhancers and developing an agentic system for Virtual Labs at RnD showcase 2025, SERC, IIIT Hyderabad



EDUCATION

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| • International Institute of Information Technology (IIIT), Hyderabad
Degree: B.Tech in Computer Science and Engineering & Master of Science in Computer Science and Engineering by Research (CSD)
Current Semester: 4th Semester
CGPA: 7.59 | 2023-2028 |
| • Government Model Senior Secondary School, Sector 21, Chandigarh
Class 11th & 12th (CBSE) | 2021-2023 |
| • Bhavan Vidyalaya, Chandigarh
Class 10th (CBSE) | 2008-2021 |