

SOMESH HARSULE

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EDUCATION

National Institute of Technology, Tiruchirappalli

Master of Computer Applications in MCA (07.37)

July 2021 – June 2024

Tiruchirappalli

Government Holkar Science College, Indore, Madhya Pradesh

Bachelor of Science in Computer Science (66.79)

July 2017 – Oct 2020

Indore, Madhya Pradesh

EXPERIENCES

Soul Ai

Data Trainer Intern

Nov 2024 – Present

- Contributed to app.outlier.ai by completing assigned modules and tasks to train a large language model. Responsibilities included executing SQL queries, managing data-driven modules, and ensuring timely delivery in alignment with project requirements.

NIT Trichy

Software Developer Intern

March 2023 – Jan 2024

- Developed an intranet application using React JS, Express JS, Node.js, and MySQL to streamline the secure transfer of confidential files for the dean and faculty at NIT Trichy.

PROJECTS

Water Quality Prediction | *Python, Machine Learning, Data Science* | [Github](#)

Jan 2024 – May 2024

- Optimized ML models (RF, XGBoost, AdaBoost, GB, KNN, DT, SVR, MLP) to achieve 95% accuracy and R^2 of 94% for water quality. Developed an LSTM network with 94.56% accuracy for short-term water quality predictions and enhanced real-time monitoring.

Chating With Multiple PDFs | *Python, Langchain, Google Gemini AI* | [Github](#)

Dec 2023 – Jan 2024

- Developed an interactive Python application using Langchain and Google Gemini AI to facilitate querying across multiple PDF documents. Streamlined document analysis by extracting content and providing real-time, intelligent insights for complex queries.

CPC Exam Portal | *HTML, CSS, JavaScript, SQLite, Django* | [Github](#)

Jan 2023 – March 2023

- Implemented user-friendly software for NIT Trichy CPC Exam Portal using Django, SQLite backend, and HTML, CSS, JavaScript frontend. Designed a secure authentication system interface for the exam portal, reducing navigation time by 40% and improving access for faculty and students. The portal ensures data privacy and integrity for more than 10,000 users.

CO-OLX | *HTML, CSS, JavaScript, SQLite, Flask* | [Github](#)

March 2022 – Jul 2022

- Created the application with the Flask framework of Python, utilizing SQLite as the database backend. Collaborated with a team of 5 students to develop an online platform for campus commerce, using webmail authentication to ensure security and reliability. Students can easily and efficiently buy or sell used products, increasing user satisfaction and engagement 35%.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript, SQL, HTML/CSS.

Developer Tools and IDEs: Jupyter Notebook, Node.js, VS Code, IntelliJ IDEA, Anaconda, FileZilla, MySQL Workbench.

Databases: PostgreSQL, MySQL, MongoDB, SQLite.

Cloud and DevOps Tools: AWS Cloud Services, Docker, Apache Kafka, NGINX, Gunicorn. **Version control:** Git, GitHub.

Relevant Coursework: Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming in C++.

Web Frameworks and Technologies: Express.js, React.js, Django, Flask.

ACHIEVEMENTS

- Winner of Karbon Card Hackathon (Oct 2024) for developing and deploying a full-stack financial analysis web application within 3 hours.
- Knight badge holder on LeetCode (Top 5%, Rating 1868), solved 1000+ problems and participated in 70+ global coding contests.
- Qualified MCA Entrance Tests: BITS, JNU, VIT, BHU, NIMCET (2021).
- Earned 1st distinction in Agamya and secured top rank in "Call Yourself Creative" at Technofania 2022, NIT Trichy.
- Recognized under Chief Minister's Scheme for Class XII (2017) and awarded Rs. 25,000 for academic excellence.

POSITION OF RESPONSIBILITY

- **Member, ACM Student Chapter** (Jan'22 - May'2024): Organized seminars, lectures, and quiz contests, along with annual events like ACUMEN and INFOTREK.
- **Central Coordinator, Version'23** (Jul 2022 - Mar 2023): A key member of NIT Trichy's techno-management festival. Managed printing and publishing committee, led a 26-member team, and delivered a seamless experience to 500+ attendees.
- **Member, Prakruti Club** (Jan'22 - May'2024): Responsible for web design and welfare of animals and plants at NIT Trichy.
- **Head of Editing Team, AAYAAM – THE HINDI CELL OF NITT** (Mar'23 - May 2024): Designed logos and videos for events and festivals.