SOURABH YASHWANT CHAUGULE

COMPUTER SCIENCE ENGINEER

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Navanath nagar , Wadarge Road Gadhinglaj , Kolhapur , Maharashtra - 416502

SUMMARY

Computer Science and Engineering student with hands-on experience in machine learning (ML), quantum computing, and game development. Proficient in Python, Java, Unity, and Quantum Computing framework called Cirq, with strong project experience in web development, research, and simulation domains. Co-authored a research paper on machine learning and completed certifications in quantum computing. Passionate about creating innovative solutions and leveraging emerging technologies.

EDUCATION

Bachelor of Technology (B.Tech) – CGPA (7.3/10)
Walchand College of Engineering
2021 - 2025
Sangli, Maharashtra

Higher Secondary School (HSC) – 94.5%
Shri. Durdundeshwar High School and Jr. College
2019 - 2021
Mutnal, Maharashtra

Secondary School (SSC) – 80%
Creative High school and junior college
2009 - 2019
Gadhinglaj, Maharashtra

CERTIFICATIONS

Complete Quantum Computing Course Certificate — Udemy
Certificate view: Quantum Computing Certificate

Data Science and Machine Learning — Mitu Skillologies (Center of continuing Education)
Certificate View: Data Science Certificate

The fundamentals of deep learning — Nvidia
Certificate View: Deep Learning Certificate

Other Courses — LinkedIn
Certificate View: Other Courses

ACHIEVEMENTS

Top 1% MHT CET Ranking
Ranked in the top 1% of students in Maharashtra with a score above 98%.

Research Publication
Co-authored a machine learning research paper published in IJCRT (UGC-approved journal).

TECHNICAL SKILLS

- **Programming:** C, C++, Java, Python
- **Web Technologies:** HTML, CSS, JavaScript, React JS
- **Databases:** MySQL, NoSQL(MongoDB), Neo4j (Graph Database)
- **Cloud & DevOps:** Cloud Computing (AWS / Google Cloud)
- **AI & Machine Learning:** Deep Learning, Natural Language Processing, TensorFlow, PyTorch, Scikit-Learn, OpenCV
- **Quantum Computing:** Cirq, Qiskit, Variational Quantum Eigensolver (VQE) , Quantum Circuit Simulation , Quantum Algorithms
- **Game Development:** Unity (C#), AR/VR/XR Integration (Meta Quest, TechXR, SenseXR)
- **Software & Tools:** IntelliJ IDEA, VS Code, Jupyter Notebook, Git & GitHub, MS Excel, MS Word, Postman, Dobot Studio, Docker
- **Hardware:** 3D Printer
- **Operating Systems:** Linux (Ubuntu), Microsoft Windows

KEY PROJECTS

P1 : GSE Calculator **November - 2025**

- Designed and implemented a quantum-computing–based model to calculate the Ground State Energy of molecules using atomic number and inter-atomic distance inputs by the use of the Variational Quantum Eigensolver (VQE) algorithm.
- Technologies: Python, Cirq, VQE, Quantum Simulation
- link of code and data.

P2 : Scholar Graph **April - 2025**

- Developed an ML-driven knowledge-graph generation system that automatically gathers topic-specific academic information and extracts key concepts, relationships, and summaries from large textual datasets.
- Implemented advanced Natural Language Processing (NLP) techniques to improve accuracy of keyword extraction and topic mapping.
- Technologies: Python, NLTK, NLP, Information Extraction, Knowledge Graph Construction
- link of code and data.