



Shivansh Vishwakarma

Roll No.: 2203561

B.Tech.

Computer Science and Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CSE)	Guru Nanak Dev Engineering College, Ludhiana	7.17 (Current)	2022-Present
Senior Secondary	CBSE Board	94.0%	2021
Secondary	Jawahar Navodaya Vidyalaya (CBSE Board)	87.8%	2019

INTERNSHIPS

- Indian Institute of Information Technology** *June 2024 - Aug. 2024*
Research Intern *Prayagraj*
 - Worked on Collision Avoidance in Swarm Robotics using Deep Reinforcement Learning, optimizing path-planning algorithms to improve efficiency.
 - Implemented efficient algorithms for real-time swarm coordination and navigation, collaborated on designing and simulating swarm behavior for real-world applications.

PROJECTS

- Hybrid ML Model for Biogas Prediction and Analysis** *Mar. 2025*
Academic research project to enhance prediction accuracy of biogas output using diverse feedstocks.
 - **Tools & technologies used:** Python, scikit-learn, Pandas, NumPy, Matplotlib.
 - Developed a hybrid ML model combining physical process modeling, Bayesian integration, and regime specialization. Achieved $R^2 \sim 0.90$ and RMSE ~ 7.1 mL.
- EduAI** *Feb. 2025*
EduAI gives AI-driven guidance with a text editor, helping students learn programming without showing full code.
 - **Tools & technologies used:** Python, HTML, CSS, JavaScript, LLMs, Flask.
- EdTech Buddy** *May. 2024*
EdTech Buddy offers personalized career guidance post-12th using CBSE's 'Compendium of courses after 10+2.
 - **Tools & technologies used:** HTML, CSS, JavaScript and BotPress

KEY COURSES TAKEN

- Data Structure Algorithms, DBMS, Artificial Intelligence, Machine Learning, Operating System, Computer Networks

TECHNICAL SKILLS

- **Programming:** C/C++, Python, JavaScript, SQL
- **Tools & OS:** Git, Jupyter Notebook, Google Colab, Linux, Windows
- **Libraries/Frameworks:** Pandas, Numpy, scikit-learn, TensorFlow, Gym
- **Web Skills:** HTML/CSS/JS.

POSITIONS OF RESPONSIBILITY

- **Executive Member**, Training & Placement Cell, GNDEC, Ludhiana *Present*
- **Core Team Member**, Data Science Club, GNDEC, Ludhiana *Aug. 2024 - Present*

ACHIEVEMENTS

- **Selected as RF Scholar**, Reliance Foundation, Received Scholarship for UG program. *2023*
- **Participated in** Google Solution Challenge 2024 *2024*
- **3rd Position Holder** Git and Linux Workshop and Quiz organized by Causmic Club GNDEC, Ludhiana *2024*
- **Shortlisted for IDE Bootcamp Edition 2 Phase 2**, organised by AICTE, MoE and MIC. *2025*

CERTIFICATIONS

- NPTEL Certification on Social Networks.
- NPTEL Certification on Privacy and Security in Online Social Media.
- NPTEL Certification on Ethical Hacking.
- NPTEL Certification on Organizational Behaviour.
- Python Foundation Certification by Infosys Springboard.
- Interactive Skills Certification by Infosys Springboard.