

Shivansh Vishwakarma

Roll No.: 2203561
B.Tech.
Computer Science and Engineering
Guru Nanak Dev Engineering College, Ludhiana

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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	New Angels Sr. Sec. School (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

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

TECHNICAL SKILLS

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

POSITIONS OF RESPONSIBILITY

- Core 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 Introduction To Industry 4.0 And Industrial Internet.
- NPTEL Certification on Data Analytics with Python.
- NPTEL Certification on Organizational Behaviour.
- NPTEL Certification on Privacy and Security in Online Social Media.
- NPTEL Certification on Ethical Hacking.
- Infosys Springboard Certification in Interactive Skills.
- Infosys Springboard Certification in Programming Fundamentals using Python.
- Infosys Springboard Certification in Python Foundation.