**Parit Gupta**

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**WORK EXPERIENCE**

**Research Paper**  
Member, Chennai, Tamil Nadu                   May 2024 – Jan 2025

* **Title**: Drone Simulation Approach for Maritime Search and Rescue
* **Description**: Conducting research on drone simulations using **Unreal Engine** to evaluate object detection models (YOLOv8, YOLOv11).
* Focused on creating realistic datasets, evaluating performance metrics (precision, recall, F1-score), and optimizing model training for imbalanced data.
* Paper under development, showcasing applications in **autonomous drone navigation and classification tasks**.

**Data Engineering Intern**, **Status Neo**

Gurgaon, Haryana May 2025 – June 2025

* Worked on several impactful mini-projects that enhanced technical expertise and practical problem-solving.
* **Web App Development**: Built an interactive application using Streamlit for real-time data visualization and user engagement.
* **Speech-to-Text (STT) System**: Implemented speech recognition pipelines, improving transcription accuracy and enabling live voice-to-text conversion.
* **RAG-based Chatbot**: Developed a Retrieval-Augmented Generation chatbot using LangChain and Cohere, enabling document-based intelligent Q&A.
* Gained hands-on experience in Machine Learning, Deep Learning, and Git, applying concepts in real-world use cases and collaborative workflows.

# **SKILLS**

* **Programming Languages**: Python, C/C++ (basic)
* **Web Technologies**: HTML, CSS
* **Machine Learning & AI**: Machine Learning, Deep Learning
* **Version Control**: Git, GitHub
* **Operating System/Tools**: Kali Linux (Moderate)

# **EDUCATION**

**B.Tech in Artificial Intelligence and Machine Learning**  
Vellore Institute of Technology , Chennai, Tamil Nadu   *May 2027*  
(CGPA: 8.67 / 10)

**Class XII (CBSE) – Vivekanand School, Delhi**  *2023*  
Percentage: 77%

**Class X (CBSE) – Kaithal, Haryana**   *2021*  
Percentage: 92%

**POSITIONS OF RESPONSIBILITY**

**Project Lead – Robotics Club, VIT Chennai**   Jan 2024 – May 2025

* Led a team in organizing and managing **5+ technical workshops**, including RevUp Arduino (Levels 1 & 2), Drone Workshop, Car Building Workshop, and RC Car Fighting.
* Mentored peers in **robotics concepts, hands-on prototyping, and embedded systems**.
* Volunteered in **AI/ML workshops** to support peer learning and technical engagement.