# Harsh Gupta

+91-7983167609 | guptaharshbly@gmail.com | linkedin.com/in/4444harsh | github.com/4444harsh

## EDUCATION

**Invertis University**                                                      Bareilly, Uttar Pradesh
*B.Tech in Computer Science and Engineering (CGPA: 8.0/10)*                              *Jun. 2026*
- **Relevant Coursework:** Data Structures, Operating Systems, Machine Learning, DBMS, Probability & Statistics

## EXPERIENCE

**Machine Learning Intern**                                                    Jan. 2025 – Mar. 2025
*RD INFRO Technology*                                                                    *Remote*
- Analyzed large datasets to solve non-routine analysis problems regarding customer attrition; derived actionable insights to drive retention strategies and business value.
- Developed Random Forest model for a Credit Card Fraud Detection system, utilizing SMOTE to harmonize data and fix class imbalances, improving anomaly detection precision.

## PROJECTS

**YouTube Data Analysis** | *AWS Lambda, Athena, SQL* | LINK                    Jun. 2025 – Jul. 2025
- **Cloud Native Engineering:** Designed a serverless data pipeline using **AWS Lambda** and **Cloud native stacks** to process unstructured JSON data into structured SQL-query formats.
- **Analytical Insights:** Executed complex SQL queries on the Data Lakehouse architecture to drive analytical insights regarding channel growth metrics.

**LifeSync Assistant** | *Python, Google ADK, GenAI* | LINK                     Nov. 2025 – Dec. 2025
- **Solution Architecture:** Designed a composition-based data solution utilizing **Microservices architecture** (Agents) and Gemini 2.5 Flash for scalable problem solving.
- **Automations:** Orchestrated specialized agents for autonomous task automation, enabling real-time decision-making and workflow optimization.

**HP Laptop Market Analytics** | *Power BI, Python* | LINK                      Nov. 2025 – Dec. 2025
- **BI Solutions:** Conceptualized and designed an interactive **Power BI dashboard** to deliver insights on pricing trends vs. hardware performance for market positioning.
- **Data Gathering:** Built automated scripts (BeautifulSoup) for data and requirements gathering, cleaning inconsistencies to ensure high data quality for **visualization**.

## TECHNICAL SKILLS

**Languages**: Python, SQL
**Cloud**: Git, GitHub, Docker, CI/CD
**Frameworks & Libraries**: PyTorch, NumPy, Pandas, Scikit-learn, Matplotlib, OpenCV, LangChain, Transformers, Hugging Face, OpenAI, Streamlit, Plotly
**Computer Vision & Image Processing**: OpenCV, Image Inpainting, Image Segmentation, Image Classification, Object Detection, GANs
**Machine Learning & AI**: Machine Learning, Deep Learning, Natural Language Processing (NLP), Large Language Models (LLMs), Fine-tuning, Generative AI, RAG Systems, Time Series Analysis, Hyperparameter Tuning
**Algorithms**: Linear/Logistic Regression, LSTM, Decision Trees, Random Forest, ANN, CNN, RNN
**Development**: REST API Development

## ACHIEVEMENTS

**Kaggle Master (Global Rank 90/57000+):** Authored 30+ notebooks focusing on **visual storytelling** (11 Silver Medals) and secured Top 7% in Rainfall Prediction competition via **prototyping innovations**.

**Algorithmic Problem Solving:** Solved 250+ DSA problems on LeetCode (C++), demonstrating strong proficiency in time/space complexity analysis for **scaled problem solving**.

**Virtual Simulations:** Completed Deloitte Forensic Technology (Tableau Dashboarding) and British Airways Data Science (Review Analysis) simulations, gaining exposure to the **business value chain**.

**Certifications:** Oracle Cloud Infrastructure 2025 Certified Data Science Professional, Python (IIT Bombay Symposium), SQL (HackerRank), AI Model Deployment on AWS (365 Data Science).