Ayush Kumar Gupta

+918789087725 | BT23CSE040@nituk.ac.in | ayush5632roxx@gmail.com | LinkedIn | GitHub

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EDUCATION

Bachelor of Technology in Computer Science and Engineering   CGPA: 8.61

National Institute of Technology, Uttarakhand   (Aug 2023 –June 2027)

TECHNICAL SKILLS

- *Languages***:** Python, Java, SQL, HTML, CSS
- *Data & Analytics*: Statistics, Data Collection, Data Visualization
- *Libraries/Frameworks*: pandas, NumPy, scikit-learn, Streamlit, Matplotlib, Seaborn, Plotly Express, PyTorch

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PROJECTS

- **Financial Summary Dashboard** (*Python, pandas, Streamlit, yfinance, plotly*)   June-July 2025
  - Developed an interactive dashboard to display over **40 quarterly and yearly financials** (e.g., Revenue, Net Income, ROE, **Altman Z-Score, Piotroski F-Score**) for any listed company using a ticker-based input.
  - Added an educational mode (**Dummy Mode**) that serves detailed breakdowns for each metric—formal definitions, LaTeX formulas, casual analogies, and interpretation guides—to improve explainability for non-experts and beginners.
  - Deployed the project on Streamlit Cloud, making it accessible as an interactive web application for end-users.
- **Credit Risk Model** (*Python, pandas, scikit-learn)*   July-August 2025
  - Implemented an **Expected Loss framework** simulating credit losses for **10,000+ loans** with a 95% confidence interval using real-world datasets.
  - Trained and benchmarked **Logistic Regression, Decision Tree, and XGBoost** models with **AUC/ROC evaluation** for PD, LGD, and EAD prediction.
  - Engineered **25+ features** across demographics and financials; developed a monitoring pipeline with PSI, score distributions, and retraining triggers for compliance.
- **GPT-from-Scratch (LLM Implementation)** *Python, PyTorch, TikToken*   August 2025
  - Reproduced the original **GPT-o2 architecture** using pretrained weights, enabling local fine-tuning and text generation.
  - Implemented **attention mechanisms, positional encodings, and optimization techniques**, gaining hands-on experience in deep learning internals.
  - Gained hands-on experience with PyTorch, numerical stability techniques, and scaling considerations, strengthening understanding of **deep learning internals and modern NLP systems.**

EXPERIENCE

- **UnchaAi (Remote)**   September 2024–January 2025

  Video editor and social media manager
  - Managed and optimized digital content and ad campaigns by data-driven decisions, improving **user engagement & conversions**.
  - Collaborated with teams to drive brand presence; Leveraged analytics to **enhance social media performance**

ACHIEVEMENTS

- Codeforces **Specialist** (Rating - 1425)
- National Creativity Olympiad – 3rd Place (All-India Level) - 2022
- CISCE National Games – 2nd Place (Boxing) - 2019, 2022

ADDITIONAL QUALIFICATIONS AND CERTIFICATIONS

- Completed hands-on coursework in **SQL and Data Science**
- Goldman Sachs: Credit Risk Simulation (via Forage), 2025