

SHIVAM

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Education

B.Tech in Data Science and Artificial Intelligence

Oct 2022 - May 2026

Indian Institute Of Technology Bhilai

CGPA: 8.74

S.K.P. Vidya Vihar, Bhagalpur

2021

Class XII - Central Board of Secondary Education

Percentage: 98%

D.A.V. Public School, Bhagalpur

2019

Class X - Central Board of Secondary Education

Percentage: 97.2%

Experience

Amazon ML Summer School 2025

Aug 2025

Amazon Learning Program

[Certificate](#)

- Attended comprehensive **virtual program** covering advanced Machine Learning topics including **Supervised Learning, Deep Neural Networks, and Generative AI**.
- Gained expertise in **Large Language Models (LLMs), Dimensionality Reduction, Unsupervised Learning, and Sequential Learning** techniques.

SRIP Intern, IIIT Bangalore

Jun 2024 - Aug 2024

Krishi AI: Precision Agriculture for Plant Health

[Certificate](#)

- Built a plant disease detection system fine-tuning **YOLOv11** on custom dataset.
- Processed a 26 GB dataset for training, ensuring robust model performance across diverse environmental conditions.
- Achieved 99.14% accuracy, closely matching state-of-the-art results (99.6%) from recent research.

Projects

Unlearning Sensitive Content from Large Language Models

[Github](#)

- Developed a comprehensive **machine unlearning framework** for LLMs using the **TOFU dataset** (200 synthetic autobiographies) to selectively remove sensitive content while preserving model utility.
- Implemented **gradient-based unlearning techniques** including Gradient Ascent, KL Minimization, and Negative Preference Optimization on **LLaMA-3.2-1B-Instruct** model.
- Achieved **88.04% forgetting effectiveness** and **82.26% semantic similarity reduction** while maintaining model integrity for non-sensitive queries.

Analysis of News Repetition in Daily News Bulletin

[Github](#)

- Utilized **Python programming** along with web scraping libraries like **youtube-transcribing-api** to collect and preprocess news bulletin data.
- Employed **natural language processing (NLP)** libraries such as **nlTK** and **re** for text processing and repetition analysis.
- Leveraged **Hugging Face Transformers models**, including **all-MiniLM-L6-v2** and **Sentence-Transformers**, to compute semantic similarity and detect repetitive content.
- Applied data visualization libraries like **Matplotlib** and **Seaborn** to create insightful visual representations of patterns and trends in news repetition data.

Technical Skills

Programming: Python, C/C++, JavaScript.

Machine Learning Frameworks: PyTorch, TensorFlow, Scikit Learn, OpenCV, NLTK, NumPy, Pandas.

Software & Tools : Git, Docker, AWS (Cloud Computing), Linux.

Extracurricular

- Dark Patterns Buster Hackathon (DPBH) 2023** Department of Consumer Affairs [Certificate](#)
- Student Placement Team Member**, CCPS, IIT Bhilai **May 2023 - Apr 2024**
- Mentor**, SMP, IIT Bhilai **Mar 2023 - Mar 2024**