

Shreyansh Gupta

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EDUCATION

National Institute of Technology Patna

Bachelor of Technology in Electronics and Communication Engineering; CGPA: 8.38/10

Patna, India

Aug. 2023 – June 2027

D.A.V. Public School RBTSJ

Senior Secondary (Class XII), Percentage: 95%

Sonbhadra, India

2022

D.A.V. Public School RBTSJ

Secondary (Class X), Percentage: 94.67%

Sonbhadra, India

2020

TECHNICAL SKILLS

Languages: Python, C++, C, TypeScript, JavaScript, MATLAB, LaTeX

ML Frameworks: PyTorch, TensorFlow, Scikit-learn, Hugging Face, LangGraph, ChromaDB, Flask, Streamlit, Gradio

Tools & Technologies: REST APIs, Postman, Git, GitHub, Firebase, Vercel, AWS **Databases:** MongoDB, MySQL

Coursework & Interests: Machine Learning, Deep Learning, NLP, GenAI, CV, Data Structures and Algorithms, Object-Oriented Programming

EXPERIENCE

BioML Lab, NIT Patna

Student Researcher under Prof. Akshay Deepak

Nov 2024 – Mar 2025

Patna, India

- Co-authored “**Hybrid Graph–Language Embedding Framework for Citation-Aware Sentiment Analysis**” (Anukul Kapoor, **Shreyansh Gupta**, Akshay Deepak). [Code](#) · [Paper](#)
- Built a hybrid framework that fuses BERT text embeddings with Node2Vec citation-graph structural embeddings and processes them through a Graph Neural Network (Keras GCNN and PyTorch Geometric GCNConv/GATConv) to classify citation sentiment as positive, neutral, or negative on the ACL Citation Sentiment Corpus (8,736 instances).
- Achieved 90.56% accuracy with the proposed GCNN, outperforming text-only and prior TF-IDF baselines; benchmarked against 8 classical classifiers (RF, SVM, AdaBoost, Extra Trees, and others).

GirlScript Summer of Code (GSSoC)

Open Source AI/ML Contributor — [Project Link](#)

Oct 2024 – Nov 2024

Remote

- Improved a terrain recognition model using data augmentation and transfer learning, achieving a 7% accuracy improvement.

TECHNICAL PROJECTS

Crop Phenology Classification using Sentinel-1/2 — [PyTorch](#), [SSM](#), [Time Series Modeling](#), [Remote Sensing](#)

- Minor Project sponsored by RAC-S, ISRO under Prof. Ajay Kumar Maurya; paper under review: “**Crop Phenology Classification: A Multi-Paradigm Benchmark from Traditional Machine Learning to Hybrid Mamba–Transformer Networks**” (**Shreyansh Gupta**, Ashutosh Panda, Shashank Pandey, Gautam Nath, Ajay Kumar Maurya).
- Developed two deep learning architectures: (i) a Transformer with tripartite temporal embeddings and (ii) a bidirectional Mamba–Transformer hybrid for winter wheat growth stage classification using Sentinel-1 SAR and Sentinel-2 optical satellite time series.
- Benchmarked 8 models across 3 modality configurations on a dataset collected from 204 agricultural fields in Bihta, Bihar, India, achieving a macro-F1 score of 0.7765 using multimodal temporal fusion without temporal resampling.

Paridhi | [React](#), [TypeScript](#), [LangGraph](#), [ChromaDB](#), [Gemini](#), [Firebase](#), [Leaflet](#) [Link](#)

- Built a mobile-first PWA for civic infrastructure discovery and community-driven urban issue reporting; led a 6-member team to the India Innovates 2026 national finals, then independently engineered the advanced version.
- Developed a LangGraph discovery agent that crawls OpenStreetMap and local news in parallel, extracts structured project facts via LLM, geocodes them with Nominatim, and validates every result with a deterministic non-AI check.
- Implemented zero-token semantic search using ChromaDB with in-process embeddings, gravity model + 2SFCA civic gap heatmaps, TSP-based walk planning, and O(1) grid-hash geofencing, covered by 40 unit tests and GitHub Actions CI.

Netflix Clone | [MERN](#), [JWT](#), [Tailwind](#), [Zustand](#), [TMDB API](#) [Link](#)

- Built a full-stack MERN streaming application with JWT authentication stored in httpOnly cookies (bcrypt), protected REST routes, TMDB-powered movie/TV browsing, trailers, and search with per-user history; deployed on Netlify.

ACHIEVEMENTS

- Selected for Amazon ML Summer School 2025 (top 3k among 60k+ participants)
- Qualified for 3 finals (India Innovates 2026, ScrollHacks, Hack This Fall); Best Performance among Top 16 at ScrollHacks
- Ranked under 800 in Amazon ML Challenge 2025 with peak live rank 43 among 80k+ participants
- Solved 400+ problems on LeetCode (rating 1718); CodeChef 2-Star; GATE DA 2026 AIR 5262; JEE Advanced 2023 AIR 17222