

Anshuman Singh

[GitHub](#) | [Email](#) | [LinkedIn](#)

Undergraduate CS student focused on research-driven engineering. I spend my time implementing papers, writing technical guides that make sense of complex topics, and building robust systems. I'm a big believer in rigorous documentation and creating software that's as consistent as the research it's based on.

EDUCATION

[REDACTED]	B.Tech Computer Science (AI & ML)	Sep 2023 – 2027 (Expected)
<ul style="list-style-type: none"> Ranked #1 in AIML specialization batch; top scholar in the B.Tech CSE program (≈300+ students). Current CGPA: 9.49/10.00 Highest SGPA: 9.92/10.00 Coursework: Advanced ML, NLP, Probability & Statistics, Linear Algebra, Computer Networks, Operating Systems, DBMS, Discrete Mathematics, Design & Analysis of Algorithms 		

RESEARCH

[REDACTED]	Emotion & Sentiment Classification Python, scikit-learn, TF-IDF, SMOTE/ADASYN, TensorFlow/Keras, PyTorch	Link Summer – Fall 2025
<ul style="list-style-type: none"> Built and benchmarked a progression of models from classical ML baselines to deep sequence models; achieved best performance (93% accuracy) with BiLSTM + custom attention. Used pretrained embeddings (GloVe/Word2Vec) and systematic evaluation (per-class metrics, confusion matrices) to quantify tradeoffs in context awareness. Focused on imbalance handling and interpretability via attention scores and error analysis. 		

[REDACTED]	Impact of Network Partition Attacks on Blockchain Consensus Python, NetworkX, NumPy, Matplotlib	Link Winter 2025 – Present
<ul style="list-style-type: none"> Studying forks, partitions, intentional forks, and propagation behavior through a small-scale simulator and literature review. Measuring fork rates, orphaned blocks, reorg behavior, and chain rejoin dynamics under controlled partition scenarios. 		

[REDACTED]	TCP vs UDP in Real-Time Online Games Networking, latency/jitter measurement, packet loss tolerance	Link Winter 2025 – Present
<ul style="list-style-type: none"> Investigating transport-layer tradeoffs in competitive multiplayer games (e.g., Valorant/CS2): latency, reliability, jitter, and packet-loss tolerance. Studying how games build custom reliability layers, lag compensation, and state synchronization on top of UDP. 		

PROJECTS

[REDACTED]	MyGPU Python, Click, Rich, FastAPI, NVML (nvidia-ml-py)	Link Fall 2025
<ul style="list-style-type: none"> Built a lightweight local GPU monitoring + benchmarking utility with both CLI and Web dashboard; designed for privacy-first local execution. Added admin-centric controls such as VRAM enforcement (auto-terminate over-limit processes) and watchlists; optional CUDA benchmarking (CuPy/PyTorch) support. 		

[REDACTED]	GitHub Translation Pipeline GitHub Actions, Python, Bash, model caching, HuggingFace	Link Summer 2025
<ul style="list-style-type: none"> Built a privacy-first CI pipeline that runs fully on GitHub runners (no API keys), generating 20+ README translations per repository. Sped up runs via parallel job execution and model-weight caching; added post-processing + structural validation to preserve code blocks and markdown structure. 		

[REDACTED]	Streak Bot Reddit Hackathon React, Vite, Tailwind, Node, Firestore, Gemini	Link Fall 2025
<ul style="list-style-type: none"> Built for the Reddit's Devvit Hackathon: a topic-based quiz experience with daily play limits and leaderboards to drive repeat engagement. Designed for non-repetitive content and responsiveness using caching strategies and LLM-generated question pipelines. 		

OPEN SOURCE

[REDACTED]	Core Contributor / Maintainer waka-readme-stats (4k+ stars) Python, CI/CD, Docker, Visualization Libraries	Link 2025 – Present
<ul style="list-style-type: none"> Contributed the README translation pipeline and helped operationalize privacy-first translations at scale. Unblocked stalled CI workflows/PRs by fixing permissions and workflow strategy; resolved multiple bugs and improved maintainer review throughput. Proposed an alternate PR review strategy and improved CI reliability using mock data for safer previews and faster iteration. 		

COMPETITIONS

[REDACTED]	NES Innovation Award 2025 National Competition	2025 - Present
<ul style="list-style-type: none"> Leading a 5-member team for this national competition; short-listed into the top-50 qualifiers. Building a nation-wide client-server based network for information dispersal through multiple end-point modes. 		

[REDACTED]	Hackathon Healthcare Track (3rd Place) Python, Flask, Data Curation, Finance	Feb 2024
<ul style="list-style-type: none"> Led a team of 4 members which developed a end-to-end ML-powered WebApp prototype in 48h. Traditional medicine(Ayurveda) based diagnosis and treatment recommendation system; achieving 92% accuracy scores. Data collection(Web scraping+Synthetic Data Generation), Model training(Random Forest), evaluation, and deployment. 		

[REDACTED]	Hackathon Special Recognition Python, Pandas, XGBoost/LightGBM, SHAP	Fall 2024
<ul style="list-style-type: none"> Led a team of 5 members, and got special recognition by judges for methodology, execution and presentation. Built a LightGBM stacking classifier on 20K+ loan records; Achieved 92.8% accuracy on classifying potential clients for the bank's private loan offering services 		