Mehul Singh

AI & NLP Systems Researcher · Dhanbad, Jharkhand, India
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EXPERIENCE

Founder & Chief Technology Officer *May 2025 – Present*
Accukhoj Technologies Hybrid

- **Architecting LCMA:** Spearheading the development of the Learning-Constrained Model Architecture (LCMA), an AI framework utilizing logic-constrained processing to achieve negligible hallucinations and exceptional accuracy in high-stake domains.
- **Engineered Logic-Aware Tokenization:** Developing a proprietary Logic-Aware BPE Tokenizer that eliminates suboptimal merges, achieving a ~98% tokenization accuracy rate (outperforming standard models like OpenAI GPT and Google Gemini).
- **Research Focus:** Currently working on independent AI research, specifically focusing on tokenizer architecture, experimental structured token processing, and transformer-based text generation.

EDUCATION

Bachelor of Technology – Computer Science & Engineering (CSE) *2024 - 2028*
Manipal University Jaipur Jaipur, Rajasthan
GPA: *8.76/10.0*
Relevant Coursework*: Design & Analysis of Algorithms, Theory of Computation, High Performance Computing, Data Structures & Algorithms*
Honors: *Student Excellence Award (2025), Dean's List (2024)*

SKILLS

Languages: C, Java, Python

AI & Machine Learning: Transformer Architectures, Machine Learning, NLP, Tokenizer Systems, Dataset Engineering

Systems & Foundations: Data Structures, Algorithms, High Performance Computing, Concurrency, Entropy Systems

PROJECTS

BBRES-RNG: Scheduler Based Entropy Engine *2026*
Source Available | github.com/singhmehul7783/Bit-Based-Randomized-Entropy-System-Scheduler-Based-RNG.git
A custom random number generator that harvests non-deterministic entropy from OS Thread Scheduler timing. Multi-threaded concurrency with bitwise mixing in Java.

Vointhez - I *2023*
Independent Project | mehul.engineer/Vointhez_TTS.pdf
Developed Vointhez, a rule-based text-to-speech (TTS) system exploring algorithmic approaches to speech generation. Designed character-pattern segmentation and pronunciation rule libraries to convert text into phonetic units.