

DEV JUNEJA

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EDUCATION

Vellore Institute of Technology (VIT Bhopal)

B.Tech in Computer Science and Engineering (AI & ML) | CGPA: 7.85

Aug. 2023 – May 2027

Bhopal, MP

PROJECTS

Brainly AI Second Brain | MERN, TypeScript, Tailwind, JWT, pgvector, OpenAI | [GitHub](#)

- Built a full-stack **AI-powered knowledge base** to save YouTube videos, tweets, and links with semantic search via **RAG (Retrieval-Augmented Generation)**
- Integrated **pgvector** with PostgreSQL to store and query embeddings; content is chunked, embedded, and retrieved contextually to answer natural language queries over saved notes
- Architected a **monorepo** with React + Tailwind frontend and Node.js + Express backend; implemented **JWT auth**, RESTful APIs, and Mongoose schemas

MiniLLM | Python, PyTorch, BPE Tokenizer | [Colab](#)

- Built a miniature transformer LLM from scratch in PyTorch, trained on Shakespeare text on a Google Colab T4 GPU
- Implemented modern architectural components including **RoPE positional encoding**, **Grouped Query Attention (GQA)**, **SwiGLU** activations, and **RMSNorm** mirroring techniques used in LLaMA-style models
- Engineered a custom **Byte Pair Encoding (BPE) tokenizer**; diagnosed and resolved garbled output traced to corpus size limitations, improving generation quality significantly
- Handled real-world training challenges: CUDA OOM errors, gradient accumulation bugs, and tokenizer-model mismatches

Hindi Text Classification EPICS Phase II | Python, FastAPI, PyTorch, HuggingFace

- Developed an ensemble model combining **CNN + BiLSTM + IndicBERT** for Hindi text classification, achieving **91.4% Macro F1** score
- Deployed the classification pipeline as a **FastAPI** service; integrated HuggingFace Transformers for multilingual NLP

SKILLS

Languages : Python, JavaScript, TypeScript, C++, SQL

Frameworks & Libraries : React.js, Node.js, Express.js, Next.js, FastAPI, PyTorch, Scikit-learn, HuggingFace Transformers, LangChain

Databases & ORMs : MongoDB, PostgreSQL, Prisma, Mongoose, pgvector

Tools & Platforms : Git, GitHub, Docker (basics), Postman, Google Colab, VS Code, GitHub Actions

AI & ML : Transformer Architecture, RAG, Fine-tuning, BPE Tokenization, Embeddings, Agents, RoPE, GQA, SwiGLU

Concepts : REST APIs, WebSockets, JWT Auth, DSA (Striver A2Z)

LEADERSHIP & INVOLVEMENT

Data Science Club, VIT Bhopal

Technical Team Lead

Aug. 2025 – Present

Bhopal, MP

- * Leading the technical wing of the club; mentoring junior members on ML/DL concepts and project development
- * Organising workshops, hands-on sessions, and club projects to build a data science learning community

Data Science Club, VIT Bhopal

Technical Team Member

Aug. 2024 – Jul. 2025

Bhopal, MP

- * Contributed to club technical initiatives, assisted in event planning, and collaborated on internal ML projects