

Vikram Ramji Iyer

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EDUCATION

Loyola Academy, Hyderabad | May 2025

Bachelor of Science in Computer Science and Artificial Intelligence

- **CGPA:** 8.90 / 10

SKILLS

Languages: TypeScript/JavaScript, Python, Java, SQL

Frontend: React, Next.js, Tailwind CSS, Tanstack Query, React Hook Form, ShadCN UI

Backend: Node.js, Hono, tRPC, Drizzle ORM, Prisma, NextAuth.js, Better-Auth

Databases: PostgreSQL, MongoDB, Redis

ML/Data: PyTorch, HuggingFace Transformers, scikit-learn, pandas

Platforms & Tools: Git, Docker, Cloudflare Workers, Vercel, Postman

PROJECTS

Brainweave – Personal Knowledge Management System | [Live Demo](#) | [GitHub](#)

Next.js 15, TypeScript, tRPC, Drizzle ORM, TanStack Query, Better-Auth, Tailwind CSS, Plate.js

- Engineered a full-stack smart notes application featuring a custom, block-based rich text editor (Plate.js), a robust many-to-many tagging system, and a secure authentication system supporting both OAuth and email/password sign-in.
- Developed a fully type-safe tRPC API with high-performance, relevance-ranked full-text search (PostgreSQL FTS) across notes, content, and tags.
- Architected a scalable, end-to-end type-safe architecture using Drizzle ORM and Zod for backend validation, seamlessly integrated with a TanStack Query frontend for optimistic UI updates and stable cursor-based pagination.

Toxic Comment Classification | [Live Demo](#) | [GitHub](#)

Python, Pytorch, HuggingFace Transformers, Gradio, scikit-learn

- Fine-tuned a DistilBERT model for multi-label text classification, achieving an average F1-score of 0.89 across six toxicity categories and reducing false negatives by 22%.
- Built an end-to-end MLOps pipeline for data preprocessing, model training, and evaluation, culminating in a lightweight Gradio interface for real-time inference.

Medium-Style Blogging Platform | [GitHub](#)

TypeScript, React, Hono, Prisma, Cloudflare Workers

- Developed a full-stack, serverless blogging platform deployed on Cloudflare Workers, featuring a React/TypeScript frontend and a Hono-powered backend.
- Designed a type-safe database schema with Prisma and automated migrations to PostgreSQL, ensuring data integrity for all CRUD and authentication operations.

CERTIFICATIONS

Machine Learning Specialization – Coursera & deeplearning.ai (Stanford University, Taught by Andrew Ng)

Soft Skills Development - NPTEL

Artificial Intelligence Fundamentals – IBM SkillsBuild