

# Vikram Ramji Iyer

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## EDUCATION

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**Loyola Academy, Hyderabad** | May 2025

Bachelor of Science in Computer Science and Artificial Intelligence

- **CGPA:** 8.90 / 10

## SKILLS

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**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

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**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

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

**Soft Skills Development** - NPTEL

**Artificial Intelligence Fundamentals** – IBM SkillsBuild