

Dharun R

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Education

KIT - KALAIgnARKARUNANIDHI INSTITUTE OF TECHNOLOGY

NOV 2022 - Present

Bachelor of Artificial Intelligence and Data Science (GPA: 7.65 / 10)

Coimbatore, Tamilnadu

- **Relevant Coursework:** Data Science, Machine Learning, Data Structures and Algorithms.

Technical Skills

Languages: HTML, CSS, Javascript, Typescript, Python, MySQL

Technologies: Tensorflow, Keras, Tailwind, React.js, Next.js, Astro.js, Git, GitHub.

Concepts: Machine Learning, Database, Operating system, System Design

Projects

Smol-MCP | Typescript (Ongoing)

github.com/DharuNamikaze/smol-mcp

- Currently building a multi-purpose MCP server built in TypeScript to act as a basic LLM backend, enabling tool invocation, database querying - built as an open-source foundation for future AI-native apps.

Gitgpt | Next.js, Typescript, ChromaDB, Gemini AI

github.com/Abinesh-Mathivanan/gitgpt

- Contributed to a web app that enables users to retrieve GitHub repositories with repo insights using Google's Gemini LLM.
- Collaborated on building an embedding pipeline that converts repository metadata into vector embeddings using Gemini, storing them in ChromaDB for fast and similarity-based search.
- Helped implement key features including search history, repository detail views (stars, language, description), and dynamic insights panel.

Convertify | Next.js, Typescript, FFmpeg

convertify-rho.vercel.app

- An online file converter that enables users to convert files into various formats including images, audios, videos. with unlimited conversions without interruptions or restrictions.
- Integrated FFmpeg WebAssembly for client-side conversion, Enabling hardware acceleration (-hwaccel auto) for faster video and audio processing.
- Utilized worker thread which enables faster video conversions without blocking and implemented a method that renders and styles each character individually, used React.memo to reduce unnecessary re-renders.

Odyssey | Next.js, TypeScript, D3.js, Firebase (Ongoing)

my-odyssey.vercel.app

- A productivity-focused web app with features like note-taking, behavioral engines to track habits, lifestyle analytics through a creative dashboard and track progress using metrics like streak, exp, etc.
- Implemented custom middleware using Firebase Authentication to secure API routes and restricted pages by validating Bearer tokens stored in cookies.
- Optimized performance by reducing built time and FFTB, using useMemo and React.memo to prevent unnecessary re-renders of expensive components in dashboard.

Experience

MyAnatomy Integration

June 2025 - Present (6-Months)

Front-end Developer (Scholar)

Coimbatore, TN

- Selected for Work Accelerated Vocational Experience (WAVE) Program, which provides real-world industrial experience through hands-on projects and research initiatives. The program offers a flexible 4 hours of work per day. Performance will determine progression to a full-time offer or a strong recommendation.

Achievements

Codechef: Ranking: 1292, Attended 50+ weekly contest.

CodeTrack: 24Hrs hacakathon conducted by KIT-CBE, secured notable spots 4 times.

CodeDebugging: Attained 3rd place in code-debugging contest, conducted by & at AIT-CBE.