

NIVED KRISHNAN J

B.Tech CSE (Data Science) | Minor in General Management | Batch 2023–27 | CHRIST (Deemed to be University), Bengaluru
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PROFESSIONAL SUMMARY

Final-year CSE (Data Science) student with hands-on experience across applied NLP/transformer fine-tuning and full-stack product engineering. Fine-tuned Google's MuRIL for Hinglish sentiment classification, built CareerMatch — an end-to-end resume-screening platform on Llama 3 — and shipped Mana Products, a production Next.js/Supabase e-commerce platform. Seeking a Data Science / ML Engineer internship to take models from notebook to production.

WORK EXPERIENCE & INTERNSHIPS

IPSR Solutions Ltd., Kochi, Kerala
Data Science & Machine Learning Intern
Python, Streamlit, Ollama, Llama 3, NLP

Apr 2026 – May 2026

- Built CareerMatch end-to-end — an AI resume-screening and job-matching platform that parses a candidate's resume, scores it against a target job description, and returns a structured fit breakdown; tested with real users.
- Implemented the parsing layer converting unstructured resumes into normalized skill, experience, and education fields for downstream scoring.
- Built semantic job-fit scoring using embedding similarity between resume content and job-description requirements, matching on meaning rather than exact keyword overlap and improving relevance over a keyword-based baseline.
- Added ATS-compatibility evaluation and skill-gap analysis, flagging requirements present in the job description but absent from the resume.
- Integrated a Llama 3 career-assistant chatbot served locally via Ollama, answering resume-feedback and career-guidance queries grounded in the candidate's parsed profile.

Nivnan Technologies, Bengaluru
Software Development Intern

Apr 2025 – May 2025

- Built a Sudoku game in Python with backtracking-based puzzle generation and solution validation across multiple difficulty levels.
- Tested and optimized gameplay logic for fast, reliable solve-validation.

PROJECTS

Mana Products — Full-Stack E-Commerce Catalog & Admin Platform
Next.js 15, React 19, TypeScript, Supabase (PostgreSQL), Tailwind CSS, Vitest

Jul 2026 – Present

- Built and deployed a production e-commerce catalog site (manaproducts.in) for a home-based spice and pickle business, live on Vercel with a public storefront and a password-protected admin CMS.
- Implemented custom session authentication from scratch — bcrypt hashing plus HMAC-SHA256 signed tokens via the Web Crypto API, verified in Next.js Middleware — and a Postgres schema with Row-Level-Security enforcing public read-only access, with all writes routed through server-only Server Actions so no database credentials are ever exposed client-side.
- Built an admin dashboard for live product CRUD, image upload to Supabase Storage, instant availability toggling, and free-text category management, covered by a Vitest unit-test suite.
- Replaced a payment gateway with WhatsApp-based deep-link ordering, and implemented a pixel-precise custom Tailwind design system built from a Figma/Stitch token spec.

Hinglish Sentiment Analyzer — Code-Mixed NLP with Fine-Tuned MuRIL
Python, PyTorch, Hugging Face Transformers, Google MuRIL, Scikit-learn, Streamlit

Jun 2026 – Present

- Fine-tuned google/muril-base-cased for three-class sentiment classification on code-mixed Hindi-English text, where English-trained models degrade sharply due to Romanized Hindi and non-standard spelling.
- Trained on a cleaned ~17,000-sample Hinglish corpus, reaching 64.6% accuracy and 0.647 weighted F1 (0.648 precision, 0.646 recall) over three epochs on a held-out ~1,700-sample evaluation set — nearly double the 33% random-chance baseline for three-class classification.
- Built the full training pipeline: data cleaning, label normalization, train/validation/test splits, Trainer-API fine-tuning, and evaluation with confusion-matrix and per-class reporting.
- Developed a Streamlit interface supporting single-text and batch CSV prediction, returning class probabilities, confidence bands, and per-request inference latency.

Axiom — Token-First Design System & Governance Framework

Feb 2026 – Present

TypeScript, Style Dictionary, Tailwind CSS, JSON, Architecture Decision Records

- Designed and built a token-first, multi-layer design system — JSON design tokens compiled by a Style Dictionary build pipeline into generated, typed CSS variables, then a semantic theme layer and components — enforcing a strict one-directional dependency pipeline across all layers.
- Authored a ~12-section governance-grade specification covering visual, motion, and interaction language, component specs, and engineering, accessibility, and performance standards, before writing any implementation code.
- Built a TypeScript type layer generated alongside the CSS output so token consumption is type-checked rather than stringly-typed, plus a Tailwind preset packaging the system for Tailwind-based projects.
- Wrote an AI_CONTEXT.md encoding the system's rules as machine-readable governance for AI coding agents working in the repo, and validated the system end-to-end by using it to build a real consumer project, a personal portfolio site.

Mechanical Department Monitoring Platform

Jun 2025 – Apr 2026

Web Development, Data Analytics

- Built a web platform tracking machine utilization for CHRIST University's Mechanical Department.
- Designed dashboards surfacing usage patterns to support predictive maintenance planning.
- Owned deployment and testing end-to-end; in active use by the department.

Smart Irrigation System

Sep 2024 – Feb 2025

IoT, Data Analytics

- Built an automated irrigation system using soil/moisture sensors to optimize water usage and reduce waste.
- Won 3rd Place Overall at the SGT Project Competition, CHRIST University.

SKILLS

Technical: Python, Java, C, SQL, Next.js, React, TypeScript, Tailwind CSS, PyTorch, Hugging Face Transformers, Scikit-learn, Pandas, NumPy, Streamlit, LangChain, Sentence Transformers, ChromaDB

Domain: Machine Learning, Deep Learning, NLP, Transformer Fine-Tuning, LLMs, Generative AI, RAG, Prompt Engineering, Semantic Search, Predictive Modelling

Data & Cloud: Power BI, MS Excel, Supabase (PostgreSQL), MongoDB, SQLite, AWS Cloud Foundations, Ollama, Llama 3

Tools: Git, GitHub, Vercel, Hugging Face Hub, VS Code

Languages: English — Fluent | Malayalam — Fluent | Hindi — Conversational

CERTIFICATIONS & TRAINING

- AWS Academy Graduate — AWS Cloud Foundations, Amazon Web Services — May 2025
- MongoDB Atlas Certification — MongoDB University — Nov 2025
- Accenture Go For Gold — iAspire Program (Gold Level) — Dec 2025

ACHIEVEMENTS & AWARDS

- 3rd Place Overall — Smart Irrigation System, SGT Project Competition, CHRIST University — 2025
- 2nd Place — Non-Tech Olympics, ASCII, CHRIST University — 2025
- First Class Academic Performance — Six Consecutive Semesters, CHRIST University — 2023–2026

EDUCATION

CHRIST (Deemed to be University), Bengaluru

Jul 2023 – May 2027 (Expected)

Bachelor of Technology — Computer Science Engineering (Data Science); Minor in General Management | CGPA: 8.01/10.0

Shanthiniketan School

Jun 2021 – May 2023

PCM-B | Percentage: 83%