

Eklakh Dewan

B.Tech AI & Data Science Student | Gen AI · NLP · Python

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eklakh-dewan Portfolio eklakh-dewan LeetCode

EDUCATION

KPR Institute of Engineering and Technology (KPRIET)

Coimbatore, India

B.Tech in Artificial Intelligence & Data Science | CGPA: 8.41/10

Sep 2023 – Sep 2027

- Coursework:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks, NLP, Software Engineering

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL

Gen AI / NLP: LangChain (workflow orchestration), Transformers, BERT, TF-IDF, SHAP (model explainability)

DSA: Arrays, Strings, Trees, Graphs, Hashing, Dynamic Programming, Recursion, Binary Search

Backend & Data: FastAPI, REST APIs, MySQL, SQL, Git/GitHub

COMPETITIVE PROGRAMMING

LeetCode (eklakh-dewan) – 150+ problems solved across Easy, Medium, and Hard difficulty levels

Focus Areas: Arrays, Strings, Dynamic Programming, Trees, Graphs, Sliding Window, Two Pointers

EXPERIENCE

Data Science Intern

Jan 2025 – Feb 2025

Flowrage Technology

Remote

- Replaced nested-loop data processing with vectorized NumPy operations and hash-map lookups on structured datasets, improving pipeline runtime.
- Built modular FastAPI services separating data ingestion, transformation, and prediction into independently testable Python classes.
- Cleaned multi-language text data (tokenization, normalization) and resolved UTF-8/ASCII encoding inconsistencies; collaborated via Git feature branches and PRs.

PROJECTS

AI Agent Workflow Automation Platform | Python, LangChain, FastAPI, YAML | 

2025

- Built a workflow orchestration engine using LangChain to chain multi-step tasks with state-machine-based conditional branching.
- Designed a YAML-driven config layer that converts declarative workflow definitions into executable task graphs at runtime, enabling new workflows without code changes.

AI Career Path Recommender | Python, Scikit-learn, SHAP, Streamlit | 

2025

- Built an ML recommendation engine using SHAP to surface feature-level reasoning behind each suggested career path, instead of a black-box output.
- Served predictions through a FastAPI backend with a Streamlit front end for interactive exploration.

Job Recommendation Engine | Python, BERT, TF-IDF, Cosine Similarity, SQL | 

2024

- Built resume-to-job semantic matching using BERT embeddings alongside TF-IDF and cosine similarity ranking, plus a skills-gap-analysis module recommending learning paths.
- Designed a normalized SQL schema with indexed foreign keys and batch-computed similarity scores using NumPy for faster corpus-wide ranking.

Multilingual AI Chatbot | Python, Transformers, NLP, FastAPI | 

2024

- Built a language detection and routing system preprocessing input through language-specific tokenization and normalization before passing to intent classifiers across 3+ languages.
- Used separate per-language preprocessing modules to avoid cross-language contamination in training data.

ACHIEVEMENTS & CERTIFICATIONS

NPTEL NLP – Elite (top percentile nationally) | Jan – Apr 2026 | Cert: NPTEL26CS45S1450500180

NPTEL Business Intelligence & Analytics – Elite | Jan – Apr 2026 | Cert: NPTEL26CS64S250503391

AWS Certified Cloud Practitioner | Deep Learning Specialization – Coursera | Google Data Analytics – Coursera