Harsh Lad

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Target Role: AI / Machine Learning Engineer (Intern / Entry-Level)

Profile

AI-focused Computer Science undergraduate with hands-on experience working on NLP pipelines and similarity-based systems using real-world, unstructured data. Comfortable with Python and Scikit-learn, with strengths in data preprocessing, feature engineering, and integrating AI components into full-stack MERN applications. Brings a strong foundation in core computer science concepts and a practical focus on building reliable, production-oriented AI solutions.

Education

Drs. Kiran & Pallavi Patel Global University (KPGU), Vadodara 2022 – 2026
Bachelor of Technology (B.Tech) in Computer Science Engineering
CGPA: 8.66 / 10

AB School, Navsari 2019 – 2022
Higher & Secondary School Certificate
HSC: 75.73 PR | SSC: 92.46 PR

Technical Skills

- **Machine Learning & NLP:** Python, Scikit-learn, TF-IDF, Cosine Similarity, NLP Pipelines, Recommendation Systems
- **Data & Analysis:** Pandas, NumPy, Exploratory Data Analysis, Feature Engineering
- **Backend & Full Stack:** React.js, Node.js, Express.js, REST APIs, MongoDB, SQL
- **Tools & Platforms:** Git/GitHub, Streamlit, Docker (Basics), Postman, VS Code
- **Core CS Fundamentals:** Data Structures & Algorithms, OOP, DBMS, Operating Systems

Featured Projects

Career Launch — Resume–Job Description Matching System (NLP)
Live Demo | GitHub
- Built an NLP-based system to compute semantic similarity between resumes and job descriptions using TF-IDF vectorization and cosine similarity.
- Developed a preprocessing pipeline to handle 100+ unstructured resume samples across varied formats, improving matching consistency.
- Automated resume–role alignment scoring, removing the need for manual similarity checks during early screening.

DesignMate AI — AI-Assisted UI Accessibility Analysis Tool
Live Demo | GitHub
- Built an AI-assisted system to analyze UI designs and surface accessibility-related layout suggestions during early design stages.
- Used computer vision techniques to interpret layout structure and validate outputs against established accessibility guidelines.
- Added structured validation and rule-based checks to improve the reliability of AI-generated recommendations.

VibeStream — Content-Based Recommendation System
Live Demo | GitHub
- Developed a content-based recommendation engine using multi-attribute metadata to generate similarity-driven suggestions.
- Implemented cosine similarity on sparse feature matrices to deliver recommendations without relying on historical user interaction data.
- Improved recommendation relevance through thoughtful feature selection and preprocessing.

Certifications & Additional Information

- Active Kaggle contributor with hands-on experimentation in machine learning workflows | GitHub portfolio featuring 7+ projects
- Languages: English (Professional), Hindi (Native), Gujarati (Native)