Yogesh Khant

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Education

G H Patel College of Engineering & Technology — Vallabh Vidyanagar, Anand, Gujarat, India
B.Tech in Computer Engineering; CGPA: 8.38/10 — *2022 – 2026*

BAPS Swaminarayan Vidhya mandir Gurukul-Gondal — Rajkot, Gujarat, India
Higher Secondary Education; Percentage: 85.67% — *2020 – 2022*

Technical Skills

Programming Languages: C, C++, Python, JavaScript
Web Technologies: HTML, CSS, Bootstrap, Node.js, React.js, Express.js
Databases: MySQL, MongoDB
Tools & Platforms: Git, VS Code, Jupyter Notebook, Postman

Experience

AIML Intern — April 2025 – May 2025
InternPe (Remote)

- Developed predictive ML models (Random Forest, Regression) for diverse applications, including healthcare (diabetes), automotive (car price), and sports analytics (IPL).
- Built and implemented a content recommendation system to deliver personalized movie suggestions.
- Executed end-to-end data science workflows (data preprocessing, feature engineering, model selection) using Python, Scikit-learn, Pandas, and NumPy.

Projects

Real-Time Chat Application | *MERN Stack (MongoDB, Express.js, React, Node.js, Pusher, Firebase)*

- Developed a real-time messaging web app using Pusher for instant message updates and Firebase for authentication.
- Designed an intuitive chat interface in React with modular components and efficient state management.
- Built secure RESTful APIs with Express.js and Node.js, and integrated MongoDB for user and message data storage.

Movie Dialogue Emotion Analyzer and Character Dashboard | *Python, NLP, Streamlit, Hugging Face, Plotly*

- Built an NLP-based emotion detection system to classify movie dialogues into categories like joy, anger, sadness, fear, surprise, and neutral using the DistilRoBERT ,a transformer model.
- Implemented text preprocessing and parsing with Regular Expressions and Pandas to extract and clean dialogues from both the Cornell Movie-Dialogs Corpus and user-uploaded scripts.
- Developed an interactive Streamlit dashboard featuring Plotly visualizations (pie, bar, and line charts) for exploring emotional tone and character-level analysis.
- Enabled character-wise emotion tracking and comparison, visualizing emotional flow across dialogues to reveal narrative and personality patterns.
- Achieved high interpretability and scalability by integrating deep learning, NLP, and data visualization techniques into a user-friendly analytical web application.

Online Book Store Application | *MERN Stack (MongoDB, Express.js, React, Node.js, Google Books API)*

- Developed a full-stack Book Store web application enabling users to register, log in, add, edit, and view books with personalized access.
- Integrated the Google Books API to access and manage a collection of 1M+ books, allowing users to search by categories and add external books to their collection.
- Implemented secure user authentication and authorization using JWT and bcrypt for data protection.
- Utilized MongoDB with well-structured Book and User schemas to store and manage user and book information efficiently.
- Designed a responsive and user-friendly React frontend ensuring seamless interaction and dynamic book management experience.