

KIRTAN MANDAVIYA

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SUMMARY

Full-Stack Developer with hands-on MERN stack experience and specialization in AI/ML. Built production-grade applications including a YouTube backend clone, AI resume parser, and complaint management system. Proficient in scalable backend architecture, RESTful APIs, NLP, machine learning model development, and modern web technologies. Completed internships at 360Design and IBM SkillsBuild, gaining practical experience in data science and agentic AI. Strong problem-solving skills with clean coding practices and ability to deliver end-to-end solutions.

EDUCATION

Aditya Silver Oak Institute of Technology

Bachelor of Technology in Information Technology

2022 – 2026

Ahmedabad, Gujarat

HSC: Shree Gyanbharti School (GSEB) – 77.38 Percentile

March 2022

SSC: Alpha Vidhya Sankul (GSEB) – 93.00 Percentile

March 2020

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, SQL, HTML5, CSS3

Frontend: React.js, Tailwind CSS, Responsive Web Design

Backend: Node.js, Express.js, RESTful APIs, JWT Authentication, OAuth, Bcrypt

Databases: MongoDB, Mongoose ODM, Database Schema Design

AI/ML: Natural Language Processing, TensorFlow, Keras, Scikit-Learn, spaCy, Model Development

Tools & Technologies: Git, GitHub, Postman, Docker, NPM, Multer, Cloudinary

Core Competencies: MERN Stack, Full-Stack Development, API Development, Data Science, Problem-Solving

EXPERIENCE

AI & Machine Learning Intern – IBM SkillsBuild (Remote)

Jul 2025 – Aug 2025

- Completed project-based learning program on Agentic AI, developing autonomous AI systems and intelligent agents
- Built supervised and unsupervised learning models using Python, Scikit-Learn, TensorFlow, and Keras
- Implemented strategies to handle imbalanced datasets and optimized model performance metrics
- Generated comprehensive performance reports for stakeholders with actionable insights and recommendations

Data Science & Machine Learning Intern – 360 Design (Remote)

Jun 2024 – Jul 2024

- Developed end-to-end machine learning pipelines including data preprocessing, feature engineering, and model deployment
- Constructed classification and regression models achieving high accuracy through hyperparameter tuning
- Applied techniques to address imbalanced datasets including SMOTE, undersampling, and class weight adjustment
- Created detailed model performance reports with metrics visualization for technical and non-technical stakeholders

PROJECTS

SkillSense – AI Resume Parser | Python, NLP, MERN Stack, TensorFlow, MongoDB Jun 2025 – Nov 2025

- Engineered an advanced ATS system using NLP and ML to automatically extract structured data from PDF/DOCX resumes including contact details, skills, education, experience, and projects with 95%+ accuracy
- Developed competency scoring algorithm using NLP-based analysis to rank candidates and identify skill gaps

- Built React dashboard with interactive data visualizations (pie charts, bar graphs) for recruiter insights and analytics
- Implemented powerful search and filter engine enabling queries by skills, experience, location, and custom keywords
- Integrated MongoDB for secure data storage and Express.js backend for seamless API communication

VidTube – YouTube Backend Clone | Node.js, Express.js, MongoDB, JWT, Cloudinary

2024

- Architected production-grade RESTful API backend for video-sharing platform with 20+ endpoints
- Implemented secure authentication system using JWT with access/refresh token mechanism and bcrypt password hashing
- Designed complex database schemas with relationships for users, videos, comments, likes, subscriptions, and playlists
- Integrated Cloudinary for video and thumbnail uploads with optimized file handling using Multer middleware
- Built comprehensive features: user auth, video CRUD operations, like/dislike, comment/reply, subscribe/unsubscribe

OCS – Online Complaint Service | Node.js, Express.js, MongoDB, JWT, Multer

2024

- Developed secure backend system enabling students to file complaints with real-time tracking and status updates
- Implemented role-based access control (RBAC) for students, department heads, and administrators
- Built file upload functionality for evidence submission with secure storage and retrieval mechanisms
- Created department-wise complaint routing system with detailed status logs and notification triggers
- Designed RESTful APIs for complaint submission, tracking, resolution workflow, and reporting dashboards

CERTIFICATIONS

IBM SkillsBuild – Agentic AI Project-Based Learning | 360Design – Internship Completion | EchVerse – Participation Certificate | Deloitte Australia – Technology Job Simulation | Getting Started with Artificial Intelligence