

VIJAY SHANKAR

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Education

JECRC University

Bachelor of Technology in Computer Science (AI & ML)

Jaipur, Rajasthan

2023 – 2027

St. Xavier's School, Nevta

CBSE Grade 12

Jaipur, Rajasthan

2023

Professional Experience

Software Developer Intern

3 Handshake Private Ltd

June 2025 – September 2025

Jaipur, Rajasthan

- Designed a production-ready AI chatbot achieving 90%+ accuracy across 633+ entries using SBERT and TF-IDF models.
- Built a bilingual conversation system with English/Hindi support, speech-to-text integration, and automated escalation protocols.
- Architected an admin dashboard with real-time dataset management and Gemini API training pipelines.
- Engineered SQL to PostgreSQL migration with Flask/SQLAlchemy ORM, ensuring scalable data management.
- Developed a CRM reminder scheduler leveraging NLP for automated task generation with role-based management.

Technical Projects

ApnaBackup AI Customer Support Chatbot | Python, NLP, PostgreSQL, Flask, React

- Developed a bilingual chatbot utilizing SBERT embeddings and TF-IDF vectorization for precise query resolution.
- Implemented intelligent escalation mechanisms with automatic support ticket generation for unresolved queries.
- Designed a React-based UI featuring light/dark mode and persistent chat history for enhanced user experience.
- Created an admin panel for dynamic dataset management and real-time analytics.

Remark Notifier CRM System | Python, NLP, Flask, SQLite, Charts

- Automated sales pipeline management with NLP intent recognition covering 20+ distinct sales stages.
- Implemented role-based workflows specifically designed for Sales Persons and Sales Experts.
- Built a real-time analytics dashboard with interactive charts to visualize performance metrics.
- Integrated smart email notifications using custom HTML templates.

VibeFinderAI – Mood-First Music Discovery | React, FastAPI, Supabase, Spotify, Last.fm

2026

- Built an AI-powered music discovery platform where users describe a mood or scene in natural language to get instant, personalized recommendations.
- Engineered a semantic ranking fallback system with multi-service integrations across Spotify, YouTube, Last.fm, Deezer, SoundCloud, and Apple Music.
- Implemented persistent YouTube search caching with a database-backed thin-pool cache for faster repeated queries.
- Developed a built-in analytics dashboard with token-gated metrics endpoints and live usage snapshots.

Technical Skills

Languages: Python, C++, C, JavaScript, HTML, SQL, R

AI/ML Technologies: SBERT, TF-IDF, NLP, spaCy, TextBlob, Machine Learning

Frameworks & Libraries: Flask, SQLAlchemy, React, FastAPI, Pandas, NumPy

Databases: PostgreSQL, SQLite, MySQL, Supabase

Developer Tools: Git, GitHub, VS Code, PyCharm

Achievements & Extracurriculars

NEC 2024 Winning Team Member | IIT Bombay E-Summit 24

- Secured 1st place representing JECRC University in the National Entrepreneurship Challenge.
- Actively participated in business strategy events including FishTank and IPL Auction.

Smart India Hackathon 2024 - Top 20 | University Level

- Ranked in the Top 20 among hundreds of teams; developed a research paper analysis tool using web scraping.

JECRC Incubation Center - Core Team | JECRC University

September 2023 – 2024

- Selected for the university's premier entrepreneurship initiative; organized startup events and fostered innovation.