

# Navneet Singh

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## SUMMARY

Software Developer with 2+ years of experience building data-driven applications using Python, SQL, and machine learning. Experienced in developing REST APIs, deploying ML models, and working with real-world datasets. Strong background in MongoDB NLP, data pipelines, and cloud-based deployment with hands-on experience in Django, Power BI, Tableau, and Git.

## EDUCATION

Christian Brothers University	Memphis, USA
Master's in Computer Information Systems (GPA – 3.9, Top 5%)	2024 – 2025
Chandigarh University	Mohali, India
Bachelor of Engineering in Computer Science	2014 - 2018

## SKILLS

- Languages:** Python, SQL, JavaScript, React, NodeJS, ExpressJS
- Data & ML:** Supervised & Unsupervised Learning, Isolation Forest, NLP, Feature Engineering, Model Evaluation
- AI Tools:** OpenAI API, REST, JSON, Whisper, Embeddings, RAG Pipelines
- Frameworks:** Django, LangChain, scikit-learn
- DevOps & Deployment:** Git, GitHub, CI/CD, Render, Vercel

## CERTIFICATIONS

- DevOps by IBM
- Professional Certificate in ML by Udemy
- Web Development and Data Science by Code with Harry

## PROJECTS

### RAG-based AI Teaching Assistant | Python, LangChain, Whisper, OpenAI API

- Built a Retrieval-Augmented Generation (RAG) system converting video lectures into an AI-powered Q&A assistant.
- Processed and indexed lecture transcripts using embeddings to enable context-aware responses.
- Improved response accuracy and relevance by optimizing chunking and retrieval logic.
- Automated data processing pipelines using Pandas and Joblib for scalable inference.

### Credit Card Fraud Detection App | Python, Django, scikit-learn, PostgreSQL

- Built and deployed a full-stack web app for detecting fraudulent transactions in real-time.
- Designed REST APIs, implemented authentication, and integrated an IsolationForest model.
- Deployed on Render with version-controlled ML artifacts and CI testing.

## ACHIEVEMENTS

- Taught 50+ underprivileged students Python in exchange for developing a free website for a local business.
- Earned a Gold medal in boxing.

## EXPERIENCE

### DITS

Chandigarh, India

### Software Developer

Jan 2019 – Dec 2020

- Developed scalable web applications using React, TypeScript, and Firebase.
- Designed role-based authentication and secure access using Firebase Authentication.
- Integrated backend services with Firestore for real-time data processing.
- Collaborated with cross-functional teams to deliver production-ready features.