# Navneet Singh

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## SUMMARY

Passionate about transforming data into insights and ideas into impactful software. Aspiring **Data Engineer and Software Developer** skilled in **Python, SQL, and Machine Learning**. Experienced in analysing real-world datasets, developing web applications, and building automation tools using modern frameworks and visualization platforms like **Power BI**.

## EDUCATION

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

## SKILLS

**Technical:** Python, SQL, Statistics, Machine Learning, NLP, Data Visualization, AI Automation
**Tools:** scikit-learn, Pandas, LangChain, OpenAI API, Whisper, Django, Power BI, Tableau, Excel, Git/GitHub
**Deployment**: Render, joblib, SQLite, PostgreSQL

## 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 that turns video lectures into an interactive AI teaching assistant.
- Used Whisper for transcription and translation, created embeddings for context retrieval, and integrated an LLM for accurate Q&A responses. Optimized the pipeline using Pandas and Joblib for efficient data handling and scalability.

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

- 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 CI testing, versioned model artifacts, and database logging.

## ACHIEVEMENTS

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

## EXPERIENCE

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| DITS | *Chandigarh, India* |
| **Software Developer** | Jan 2019 – Jun 2020 |

- Implemented modular, reusable components using React, TypeScript, and Tailwind CSS, ensuring scalability and maintainability.
- Integrated Firebase (Authentication, Firestore, Cloud Functions) for secure access, real-time data handling, and role-based permissions.
- Built Groups and Courses with Firebase (Auth & Firestore) to ensure secure access, real-time updates, and role-based permissions