

NANDINI SHILPKAR

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CAREER OBJECTIVE

Motivated AI/ML and Data Science professional seeking an opportunity to apply strong programming, data analysis, and machine learning skills in building intelligent, data-driven solutions. Hands-on experience in developing analytical dashboards and a Retrieval-Augmented Generation (RAG) based AI application for document-driven question answering. Eager to contribute to real-world AI projects and grow as an AI/ML Engineer or Data Scientist in a challenging professional environment.

EDUCATION

B.Tech – Computer Science & Engineering 2015 – 2019
Dr. A.P.J. Abdul Kalam Technical University (AKTU)

TECHNICAL SKILLS

Programming: Python, Java, C/C++, JavaScript, .NET – strong fundamentals, OOP concepts, and logical problem solving.

Data & Analytics: Pandas, NumPy, Excel, data cleaning, preprocessing, feature engineering, statistics.

Machine Learning: Supervised learning, classification, regression, model evaluation and validation.

Generative AI & RAG: Retrieval-Augmented Generation (RAG), LangChain, document ingestion, text chunking, vector embeddings, FAISS similarity search, prompt engineering, context-aware response generation.

Deep Learning (Conceptual): CNN architecture, convolution, pooling, feature maps (demonstrated via simulator).

Visualization & BI: Power BI, Matplotlib, Seaborn, Streamlit – dashboards and analytical visuals.

Web & Tools: HTML, CSS, JavaScript, Git, GitHub, VS Code, Google Colab.

PROJECTS

Stock Market Analysis Dashboard | Python, Streamlit | [Live](#)

- Data cleaning, preprocessing, exploratory data analysis.
- RSI, MACD, Moving Averages, Bollinger Bands implementation.

CNN Simulator (Web-based Visualization Tool) | HTML, CSS, JavaScript | [Live](#)

- Step-by-step simulation of convolution and pooling layers.
- Interactive educational tool for CNN concepts.

RAG-based AI Chatbot (Document Question Answering) | Python, Streamlit, LangChain, FAISS | [Live](#)

- Retrieval-Augmented Generation for document-based question answering.
 - FAISS vector search with embeddings and LLM-based response generation.
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CERTIFICATIONS

AI & Machine Learning – IIT Delhi

- AI/ML fundamentals, supervised and unsupervised learning, model evaluation.
- Practical understanding of real-world AI use cases.

Programming – Protec Consultancy

- Python, Java, .NET – programming fundamentals and application development basics.

Data & Analytics – Satish Dhawale

- Advanced Excel and Power BI – dashboards, reporting, and business insights.