

NAVYANSH KOTHARI

Data Scientist | Gen-AI | Backend Engineer

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EXPERIENCE

Data Scientist | Gen-AI Engineer

Ganit Inc

Sep 2025 – Present

Chennai, India

- Worked on **BFSI domain datasets**, performing data cleaning, feature engineering, and **exploratory data analysis (EDA)** using Pandas and NumPy, and built **machine learning models** on financial data leveraging PostgreSQL for analytics.
- Developed **production-grade GenAI applications** using FastAPI, LangChain, LangGraph, and AWS, supporting scalable data ingestion and retrieval pipelines.

Technical Growth Analyst

Hitwicket

Dec 2024 – Aug 2025

Hyderabad, India

- Performed **data analysis, forecasting, and predictive modeling** using data science and machine learning techniques to support growth and retention strategies.

Python Backend Developer

Ethnus CodeMithra

Aug 2023 – Nov 2023

Chennai, India

- Developed backend services using **Python and FastAPI** to build scalable and well-structured REST APIs.
- Implemented API endpoints, request validation, authentication, and database integrations for backend systems.

EDUCATION

Vellore Institute of Technology

2021–2025

- B.Tech in Computer Science and Engineering – **8.3 CGPA**

Chinmaya Vidyalaya, CBSE

2020–2021

- Class XII – **94.8 Percent**

Chinmaya Vidyalaya, CBSE

2018–2019

- Class X – **90.2 Percent**

PUBLICATION

Towards Insider Threat Resilience: A Proposed Mitigation Model [IEEE Xplore](#)

- Developed a Windows app using Flutter and Dart to automate Python script protection, support IP input, file handling, executable generation, and basic steganography.

TECHNICAL SKILLS

- Programming Languages:** Python, Java, JavaScript, SQL
- Frameworks & Libraries:** Pandas, NumPy, FastAPI, LangChain, LangGraph, Node.js, Streamlit
- Databases:** PostgreSQL, MySQL, MongoDB, AWS Aurora, AWS Redshift, AWS DynamoDB, AWS OpenSearch
- Cloud & Tools:** AWS (S3, Bedrock), Google Cloud Platform, Git, GitHub

PROJECTS

[Efficient RAG-Based Chatbot System](#)

Frameworks Used: Langchain | AWS S3, Bedrock, OpenSearch, Titan embeddings

- Developed a RAG chatbot with **selective embedding updates**, reducing re-embedding cost during document changes by 80 Percent.
- Built a production-ready pipeline using **AWS S3, OpenSearch** for vector search, **Amazon Titan embeddings**, and **AWS Bedrock** for LLM inference.

[Credit Card Fraud Detection - BFSI](#)

Frameworks Used: Python | XGBoost | Scikit-learn | Pandas | Geopy

- Built fraud detection model for credit card transactions achieving 93% recall and 0.997 ROC-AUC on 555K transactions
- Engineered time-based and geospatial features while handling 99.6% class imbalance using XGBoost class weighting

[Demand Forecasting System - FMCG](#)

Frameworks Used: Python | ARIMA | Statsmodels | Scikit-learn | XGBoost

- Developed demand forecasting pipeline comparing ARIMA, exponential smoothing, and ML models for inventory optimization
- Implemented ABC-XYZ product segmentation and lag feature engineering for time series prediction across product categories

[MCQ Quiz Generator](#)

Frameworks Used: Python | Flask | Google Gemini 1.5 Pro | HTML | CSS | JavaScript

- Developed mobile-friendly web app generating MCQs from PDF, TXT, and DOCX files using Google Gemini 1.5 Pro
- Implemented quiz mode with downloadable answers and interactive learning features for enhanced user engagement

[Portfolio Website](#)

Frameworks Used: React | Framer Motion | HTML | CSS | JavaScript

- Developed a fully responsive portfolio website using React with seamless performance across all devices
- Integrated Framer Motion for smooth animations and modern design patterns with Hostinger hosting

CERTIFICATIONS | ACHIEVEMENTS

- AWS Certified Cloud Practitioner, [Link](#)
- Google Cloud Computing Foundations by IIT Kharagpur, [top 5 percent scorer](#)
- IIT Bombay: Java, MySQL, PHP, Python Training [Link](#)
- Created YouTube videos on DSA, [NavyCodes](#) and Tech Videos, [NavyGeeks](#) channels
- School Topper in Physics Class XII, [Post](#)