

DEEPAK

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Education

National Institute of Technology, Kurukshetra
B. Tech in Computer Engineering (CGPA of 8.14/10)

Kurukshetra, Haryana
December 2021 - May 2025

School of Excellence, Dwarka Sec 22
Central Board of Secondary Education (Percentage : 95.2)

West Delhi, Delhi
2019 - 2020

Experience

Americana Restaurants **Jan 2025 - June 2025**
Generative AI
Data Engineer Intern

Sales Deep Analyzer | *GPT-4o, Azure AI Search, JavaScript (Node.js), Python, SQL Server, MongoDB, Plotly.js, HTML, CSS*

- Led the development of a **GPT-4o-powered chatbot** that uses **prompt engineering** to generate **dynamic SQL queries** from natural language, eliminating the need for SQL/Excel knowledge among sales users.
- Engineered an end-to-end AI analytics pipeline using **GPT-4o, Azure AI Search, and Plotly.js** to generate **dynamic pivot tables, dashboards (KPIs, trends, YoY comparisons)**, and interactive visualizations from live SQL Server data.
- Built self-service data tools including **Excel-to-insight AI, query history (Lambda DB), voice input, and CSV export**, improving decision-making speed by **80%** for business teams.
- Offered **Full Time Offer (PPO)** based on performance and delivery of **business impact**.

Projects

Safar Squad - Travel Companion Platform | *React, TypeScript, Tailwind CSS, Supabase, PostgreSQL* **Source Code** | **Live Demo**

- Built a **comprehensive travel platform** using **React + TypeScript + Supabase**, featuring real-time trip discovery with interactive maps, clustering algorithms, and earth-tone responsive design across all devices.
- Implemented **advanced join request approval system, real-time chat with emoji reactions, and AI-powered trip recommendations**, enabling seamless traveler connections and community engagement with secure authentication.
- Engineered **secure user authentication with RLS policies**, photo-rich review system, smart bookmarking, and responsive design optimized for cross-platform compatibility and performance.

Food Point | *Python, scikit-learn, NumPy, Pandas, FastAPI, Streamlit, Docker, KNN*

Source Code | **Live Demo**

- Developed a **personalized diet recommendation system achieving 94% accuracy** with K-Nearest Neighbors (KNN).
- Built a streamlined API backend using **FastAPI** and a user-friendly frontend with **Streamlit**.
- Deployed application on **Docker**, optimizing for scalability and ease of integration.

QueryPDF | *Python, NumPy, Pandas, FastAPI, Streamlit, Docker, FAISS, T5*

Source Code | **Live Demo**

- Developed an **AI chatbot** to answer questions by **extracting and interpreting information** from PDF documents.
- Fine-tuned a **Hugging Face model** with **Langchain** and **FAISS** for efficient information retrieval using **NLP techniques**.
- Deployed the chatbot using **Streamlit** with a well-designed UI/UX interface for seamless **user interaction**.

Achievements / Volunteer Experience / Extracurricular

- Achieved Global Rank 31, 201 on Codechef and Codeforces weekly contests.
- 4 Star at **Codechef** MaxRating: 1806, Knight at **LeetCode** MaxRating: 1805, Specialist at **CodeForces** MaxRating: 1665
- Solved 1500+ DSA and Competitive Programming problems on various platforms.
- Selected from over 90,000 applicants for the prestigious Amazon ML School 2024 program.
- Ranked in the top 5% of Kaggle's Data Science Bowl by improving prediction accuracy by 15% with a deep learning model using TensorFlow.
- Organized a blood donation camp with over 350 donors.
- Held a leadership position in Rooh Society, facilitating financial assistance to economically disadvantaged students.

Technical Skills

Languages: C, C++, Python, Java, JavaScript, HTML/CSS, SQL, TypeScript

Developer Tools: Visual Studio Code, Git—GitHub, Google Colab, Jupyter Notebook, Supabase, Vercel

Technologies/Frameworks: React, Next.js, Node.js, MongoDB, Docker, FastAPI

Machine Learning: Advanced Machine Learning Algorithms, Deep Learning, CNN, Sequence Time Series Prediction, Prompt Engineering

Packages: Python (Pandas, NumPy, Scikit-learn, Seaborn, TensorFlow, Keras, FAISS, Hugging Face Transformers, Streamlit)

Certificates

- Introduction to C++ • DSA in C++ • Advanced Machine Learning • Deep Learning • TensorFlow