# DEEPAK

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## Education

**National Institute of Technology, Kurukshetra**  **Kurukshetra, Haryana**
*B. Tech in Computer Engineering (CGPA of 8.14/10)*  *December 2021 - May 2025*

**School of Excellence,Dwarka Sec 22**  **West Delhi, Delhi**
*Central Board of Secondary Education (Percentage : 95.2)*  *2019 - 2020*

## Experience

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

**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

**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.**

**Shopper-ECommerce**  | *HTML5+CSS3, JavaScript, React, Node.js, MongoDB*  **Source Code**
- Developed a **fully responsive shopping** platform using the **MERN stack**, delivering seamless user experiences across desktop and mobile devices.
- Engineered and implemented key features, including **user authentication, product catalog management, and shopping cart functionality**, ensuring a secure and efficient online shopping environment.
- **Live Link**  : Frontend , Backend , Admin Panel

## 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.

## Profile Links

- Codeforces
- Codechef
- LeetCode
- Kaggle
- GitHub

## Technical Skills

**Languages**: C,C++, Python, Java, JavaScript, HTML/CSS, SQL, Typescript
**Developer Tools**: Visual Studio Code, Git—GitHub,Google Colab,Jupyter Notebook
**Technologies/Frameworks**: React, Next.js, Node.js, MongoDB, Docker,FastAPI
**Maching 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