# Sakshi Jain *Data Science Engineer*


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## Education

2021 – present
Jaipur, India

**B.Tech in Artificial Intelligence and Data Science**
*Jaipur Engineering College and Research Centre, Jaipur*
Current CGPA - 9.05

## Professional Experience

2023/12 – 2024/04

**Associate Data Science Educator**
*Geekster*
- Implemented advanced data scraping techniques using **Selenium** and **BeautifulSoup** for efficient information retrieval.
- Led end-to-end project design for student-focused applications, collaborating seamlessly with cross-functional teams.
- Conducted insightful data analysis and delivered impactful presentations, guiding strategic decision-making and fostering external collaborations.

2023/07 – 2023/10

**Data Science Intern**
*Clarista*
- Developed a real-time **food notification app** using Python, Django, and PostgreSQL, deployed with **Docker & Kubernetes.**
- Managed and analyzed data from 10,000 users in the database.
- Trained advanced language models (**Code Llama, Mistral 7B**) on CSV inputs, creating **custom APIs** for data interaction.
- Built a Python **regression model** predicting critical temperatures, achieving R2-scores of **0.7** (polynomial), **0.87** (Decision Tree), and **0.907** (Random Forest).
- Successfully applied data science to healthcare and environmental domains: Hospital Readmission prediction and Wastewater Treatment Plant Fault prediction.

## Skills

Machine Learning, Python, Numpy/Pandas, Git, Data Analysis, Data Visualization, Streamlit, Data Structures & Algorithms, Django, SQL, DB, Deep Learning, LangChain, PowerBi, Excel

## Projects

**Genetic Algorithm**
*Implemented genetic algorithm examples in Python*
- Solved Shakespeare's monkey example using **genetic algorithm** and visualized using **python tkinter.**
- Created smart rockets simulation using **genetic algorithm** which evolves perfect solution after at-most **10 generations**

**Movie Recommendation System**
*Recommends movies based on the trained dataset*
- Trained on Kaggle Dataset containing **5000** movies data
- Used **NLP** (using NLTK) to train the dataset
- The recommendation was based on features like **title, genre, keywords,** etc.
- Deployed on Streamlit

**Sentimental Analysis**
*Sentimental Analysis on amazon food reviews*
- Perform **sentiment analysis** on amazon food reviews based on Kaggle dataset
- Used **NLTK** to train the data
- Analyze **~500,000** food reviews from Amazon

## Courses

2022/08 — **Python for Data Science**
*Cognitive Class by IBM*

2022/08 — **Data Analysis with Python**
*Cognitive Class by IBM*

2023/01 — **Machine Learning Trainee**
*Internshala*