

Sehaj Kaur

An enthusiastic Data Science and Analytics learner, excited to take on challenging projects and apply my analytical and technical skills. Curious about exploring new technologies and passionate about working with professionals to gain hands-on experience and create meaningful, data-driven solutions.

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Education

Degree	Board	Institute	CGPA/Percentage	Year
Bachelor of Technology	Guru Gobind Singh Indraprastha University	Guru Tegh Bahadur Institute of Technology	9.3(1 st year) 9.3(2 nd year) 9.7(3 rd year)	2021-2025
Senior Secondary	Central Board of Secondary Education	DAV centenary public school	98%	2021
Secondary	Central Board of Secondary Education	DAV centenary public school	97.2%	2019

Projects

- Criminal Identification System Using Face Recognition

August 2024 – October 2024

Developed a Django based web application leveraging Python's face_recognition, Pillow, and dlib libraries to identify criminals through image or webcam input. Implemented real-time facial detection and encoding techniques to match faces against a pre-existing database. Enhanced law enforcement capabilities with features like live tracking, database updates, and functionalities for user assistance using NLP.
- AI-Powered Chatbot for Intelligent Interaction

June 2024 – Sept 2024

Developed a machine learning-based chatbot using NLP techniques, including text preprocessing with stemming and lemmatization, and a dense neural network with softmax activation for query classification. Employed categorical cross-entropy loss for training and implemented the user interface with Tkinter for seamless interaction.

Experience

- Data Science and Analytics Mentorship Program by PREGRAD

Aug 2023- Nov 2023

Participated in a three-month mentorship program focused on Data Science and Analytics. Gained foundational knowledge in Python and essential libraries for machine learning and deep learning. Worked on various models, including linear regression, SVM, PCA and decision tree models, utilizing diverse datasets from Kaggle. Enhanced practical skills in data manipulation, model development, and visualization, preparing for real-world applications in data-driven decision-making.

Technical Skills

- Programming Languages: C, python, OOPS
- Libraries: Numpy, pandas, matplotlib, tensorflow and keras
- Data management: SQL, DBMS, Excel

Key courses taken

- JPMorgan Chase & Co: Corporate Analyst Development Program (CADP) Job Simulation
- Tata Consultancy Services: Data Visualisation: Empowering Business with Effective Insights
- Infosys Foundation and ICT Academy: Python web Development Training
- Scaler Topics: Data science and its Fundamentals
- Artificial intelligence and its technological advancements.
- Machine learning: Algorithms and model training