

Gurleen Kaur Bali

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Professional Summary

Results-driven with skills strengthened through professional training and practical project experience. Passionate about leveraging data to uncover insights and support intelligent business decisions.

Education

Guru Gobind Singh Indraprastha University

Bachelor of Computer Applications

Oct 2022 – June 2025

CGPA: 9.50

S.S. Mota Singh Sr. Sec. Model School

2010 – 2022

Class XII (CBSE)

Percentage: 94.4%

Class X (CBSE)

Percentage: 89%

Skills

Programming Languages: Python, C, C++

Frameworks and Libraries: Django, LangChain, Streamlit

Tools and Platforms: Power BI, Excel, Tableau

Technologies: Machine Learning, NLP, SQL, Computer Networks

Professional Knowledge: Software Engineering

Portfolio

A collection of my hands-on projects and web applications built using AI, ML, and data visualization tools.

Portfolio link: [portfolio](#)

Projects

Article Summarization using NLP and Seq2Seq Model

[article.summarization](#)

- Engineered an innovative NLP system for summarizing articles by processing over 4,500 news items. Leveraged Google Collab with GPU acceleration for model training and optimization.
- Processed a dataset including metadata like authors, headlines, and full text.
- Implemented a Seq2Seq model with an LSTM encoder-decoder architecture.
- Preprocessed data with tokenization, lemmatization, and stopword removal.
- Used Hugging Face Transformers and trained on Google Colab with GPU.

Sales Dashboard using Tableau

[Dashboard Link](#)

- Designed and developed an interactive Tableau dashboard to visualize and analyze key sales insights for a hardware product company, driving data-driven decision-making and strategic planning.
- Connected to a sales transaction database, performing data cleaning and preprocessing, including resolving negative sales values and standardizing revenue in INR.
- Created calculated fields to accurately convert revenue figures and standardize data for further analysis.
- Designed insightful visualizations, including sales quantity by market, top 5 products, top 5 customers, and revenue trends broken down by year and market segment.
- Delivered a dynamic and user-friendly dashboard, providing actionable insights for business growth.

Personal chatbot

[chatbot](#)

- Developed a personalized chatbot using FAISS (Facebook AI Similarity Search) and the SentenceTransformer library.
 - Used SentenceTransformer (all-MiniLM-L6-v2) to convert both user queries and stored prompts into vector embeddings.
 - Built a FAISS index to store these vector embeddings for efficient similarity search.
 - Used Streamlit to build a clean and interactive frontend interface where users can chat with the bot.
- chatbot link: <https://gurleenchatbot.streamlit.app/>

English-to-Turkish Translator

[text_translator](#)

- Developed an AI-powered English-to-Turkish translation web application using **Hugging Face’s M2M100 model**.
- Implemented **text and text file translation**, with dynamic UI enhancements using **Django**.
- Integrated **evaluation metrics** (Perplexity, Readability, Semantic Similarity) and a **loading animation** for better user experience.
- Designed a responsive and visually appealing interface with **real-time translation updates**.

Sportsperson Image Classification Model

[image_classification](#)

- Developed a multi-class classification model to categorize images of athletes into five distinct categories, employing advanced machine learning techniques to ensure precise and reliable predictions.
- Implemented face detection using Haar Cascades to isolate relevant features, enhancing the model’s ability to differentiate between categories effectively.
- Conducted **hyperparameter tuning** to optimize model performance, leading to significant improvements in classification accuracy and overall model efficiency.

Django Web Application (MVC Architecture)

[django_website](#)

- Built a robust web application using Django, focusing on efficient backend management and an enhanced user experience.
- Implemented efficient URL routing using Django’s **URL dispatching** system, optimizing the organization and navigation of application endpoints.
- Designed and deployed a user-friendly “Contact Us” form to enhance user interaction and feedback collection, improving the overall user experience.
- Developed a deep understanding of Django’s **Model-View-Controller (MVC)** architecture, facilitating efficient management of backend processes and improved organization of application components.

Certifications

- **Career Essentials in Generative AI by Microsoft and LinkedIn** (Generative AI , Machine learning , Microsoft copilot) : [careeressentialscertificate](#)
- **British Airways - Data Science job Simulation Forage** : [britishairwaysdatasciencecertificate](#)
- **J.P. Morgan - Software Engineering job Simulation Forage** : [jpmorgansoftwareengineeringcertificate](#)
- **Generative AI Introduction and Applications IBM** : [generativeaiintroandapplications](#)
- **Python for machine learning Great learning** : [pythonforml](#)
- **Introduction to AWS Cloud Careers** : [awscloudcareers](#)

Relevant Experience & Training

Data Science Trainee — Shape MySkills

Jul – Aug 2024

- Learned and applied machine learning algorithms on classification and prediction tasks.
- Built and evaluated models using real-world datasets.
- Focused on supervised learning, performance tuning, and model evaluation metrics.
- Developed a **Diabetes Prediction App** using logistic regression and streamlit for deployment.

Data Analytics Trainee — QSpiders

Feb 2025- June 2025

- Worked on real-time analytics problems using Python and SQL.
- Gained hands-on experience in data cleaning, transformation, and storytelling with visuals.
- Built Power BI dashboards for visualizing business insights.