Gurleen Kaur Bali

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Education

Guru Gobind Singh Indraprastha University — 2022 – 2025
Bachelor of Computer Applications — 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 & Data: Python, SQL, Pandas, NumPy
Machine Learning & AI: Scikit-learn, NLP (Transformers, Seq2Seq, Embeddings), Hugging Face, FAISS, RAG
Data Visualization & Analytics: Tableau, Power BI, Excel, Matplotlib

Web Development & Deployment: FastAPI, Streamlit, GitHub, Vercel, Render
Core Competencies: Data preprocessing, Feature engineering, Model training & evaluation, Hyperparameter tuning, Software Engineering

Projects

IPCheck - AI-Powered Suspicious IP Detection — Project Link | Live Project

– Built **IPCheck**, an AI-powered web app that analyzed **50,000+ server log entries** with a Random Forest ML model, achieving high accuracy in detecting suspicious IPs and enhancing security insights.
– Engineered a **FastAPI backend** with CSV upload, automated preprocessing, and real-time risk scoring.
– Developed a **React frontend** with world map visualization for flagged IPs, improving security insights and situational awareness.
– Deployed full-stack solution across **Render (backend)** and **Vercel (frontend)** with secure environment configs, enabling **scalable production hosting**.

Personal Chatbot using FAISS and SentenceTransformer — Chatbot Link | Live Demo

– Designed a **vector database-powered chatbot** using FAISS and SentenceTransformer (all-MiniLM-L6-v2) for semantic query matching.
– Enabled **Q&A retrieval** by converting queries and prompts into embeddings.
– Built an intuitive **Streamlit frontend**, resulting in a clean, interactive chat experience.

Sales Dashboard using Tableau — Dashboard

– Created an **interactive Tableau dashboard** to analyze **regional sales across 5 territories**, uncovering top-performing regions and underperforming markets.
– Delivered **data-driven insights** that supported sales strategy optimization and **increased visibility for low-performing regions**.

English-to-Turkish Translator — Translator app

– Developed an **AI-powered translator app** using Hugging Face's M2M100 model, enabling **real-time English–Turkish translations**.
– Designed a responsive and visually appealing interface with **real-time translation updates**.

Article Summarization with Seq2Seq Model — GitHub

– Processed 4,500+ articles with metadata using **NLTK** for tokenization, lemmatization, and stopword removal.
– Trained a **Seq2Seq LSTM encoder-decoder** model on **Google Colab GPU** for abstractive summarization.

Certifications

– Career Essentials in Generative AI by Microsoft and LinkedIn: Career Essentials
– British Airways - Data Science (Forage): Data Science
– JP Morgan - Software Engineering (Forage): SE
– Generative AI Applications (IBM): Gen AI

Relevant Experience & Training

Data Science Trainee — Shape MySkills — Jul – Aug 2024

– Applied **ML classification algorithms** (logistic regression, decision trees) on structured datasets, achieving **85% accuracy** in health predictions.
– Created an interactive web app for diabetes prediction, enabling **real-time user input and instant predictions**.
– Gained hands-on experience in **data preprocessing, feature engineering, and model evaluation**, strengthening foundations in ML pipeline development.