

SAGAR SINGH

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EDUCATION

Bachelor of Technology in Computer Science & Engineering <i>Maharshi Dayanand University</i>	8.25 CGPA <i>Aug 2021 – Jun 2025</i>
Intermediate <i>J.K.R Public School</i>	93% <i>Apr 2019 – Mar 2021</i>
High School <i>J.K.R Public School</i>	92% <i>Apr 2017 – Mar 2019</i>

EXPERIENCE

Business Intelligence Analyst <i>Cynet Systems</i>	Sept 2025 – Dec 2025 <i>Noida</i>
<ul style="list-style-type: none">Designed interactive Tableau dashboards that improved business performance visibility and reduced manual reporting effort by 35%.Implemented data validation and governance checks, ensuring 100% accuracy across risk and compliance KPIs.Developed automated email workflows for employee birthday and work-anniversary communications, reducing manual HR effort.Developed an internal grievance portal, enabling structured issue tracking, status monitoring, and faster resolution for employees.	
Data Science Trainee <i>Simplilearn</i>	Jan 2025 - Jul 2025 <i>Remote</i>
<ul style="list-style-type: none">Completed 200+ hours of hands-on training in Python, Machine Learning, SQL, and Tableau with real-world capstone projects.Built end-to-end ML pipelines including data preprocessing, feature engineering, model training, and evaluation across 8+ datasets.Developed 5+ production-ready projects including predictive models, customer segmentation, and interactive dashboards.Implemented ML models using Scikit-learn and TensorFlow (Regression, Classification, Clustering).	

PROJECTS

Generative AI Voice Interviewer	<i>FastAPI, Streamlit, LangChain, FAISS, Transformers, Python</i>
<ul style="list-style-type: none">Built an end-to-end AI interviewing platform simulating real-world technical interviews with multi-turn conversational memory.Implemented Retrieval-Augmented Generation (RAG) achieving 85% answer accuracy on domain-specific technical queries.Integrated FAISS vector database for semantic search across 10K+ documents.Designed REST APIs using FastAPI for real-time inference with sub-200ms response latency.Applied prompt engineering techniques to reduce hallucinations and improve response relevance.	
Global Earthquake-Tsunami Risk Prediction System	<i>Python, Scikit-learn, XGBoost, Streamlit, Git</i>
<ul style="list-style-type: none">Built and deployed an end-to-end ML application to predict tsunami risk using seismic data from 782 global earthquakes (2001–2022)Trained and evaluated multiple classification models (Random Forest, Gradient Boosting, XGBoost, LightGBM, SVM) and selected the best-performing model using ROC-AUC.Designed a reproducible preprocessing pipeline with feature scaling and automated model selection.Developed an interactive Streamlit dashboard providing real-time predictions, probability scores, feature-importance explainability, and data visualizations.	

- Deployed the application on Streamlit Cloud and managed the full project lifecycle using Git and GitHub.

Real-Time Object Detection System

TensorFlow, OpenCV, YOLOv8, Python, MLflow, Git

- Developed a real-time object detection pipeline for vehicles, pedestrians, and traffic signs achieving 89% mAP on COCO.
- Improved low-light detection accuracy by 12% using custom data augmentation techniques.
- Optimized inference using TensorRT to achieve 30 FPS, reducing latency from 45ms to 18ms.
- Tracked experiments and model versions using MLflow and Git.

Uber Rides Analytics Dashboard

Tableau, SQL, Excel

- Analyzed 50K+ Uber ride records to identify trends in revenue, cancellations, and customer ratings.
- Built KPIs for ride volume, revenue by vehicle type, cancellation trends, and rating comparisons.
- Improved reporting efficiency by 40%, reducing manual analysis time from 5 hours/week to under 3 hours/week.

SKILLS

Programming & Libraries: Python (Pandas, NumPy, TensorFlow, Scikit-learn, XGBoost), SQL

AI & ML Frameworks: LangChain, Transformers, Streamlit, MLflow

Data & BI Tools: Tableau, Looker Studio, Excel

ML/DL Concepts: Deep Learning, EDA, Statistical Analysis, ML Workflows, Feature Engineering, Hyperparameter Optimization, Model Training & Evaluation, Deployment

Other Tools: JupyterLab, Git, VSCode, Google Analytics