

SAGAR SINGH

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EDUCATION

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

EXPERIENCE

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|---|---------------------|
| Business Intelligence Analyst (Contractual Role) | Sept 2025 – Present |
| <i>Cynet Systems</i> | <i>Noida</i> |
| <ul style="list-style-type: none">Designed interactive dashboards improving business performance visibility and reducing manual reporting effort by 35%.Executed robust validation and governance checks ensuring 100% accuracy across risk-related KPIs.Optimized Tableau workbooks and data connections, improving dashboard performance by 30% and automating recurring reporting to save 8 hours/week.Developed custom parameters, filters, and calculated fields enabling self-service analytics for non-technical users. | |
| Data Science Trainee | Jan 2025 - Jul 2025 |
| <i>Simplilearn</i> | <i>Remote</i> |
| <ul style="list-style-type: none">Completed comprehensive 200+ hour certification covering Python programming, Machine Learning algorithms, SQL database management, and Tableau visualisation with hands-on capstone projects.Built end-to-end ML pipelines including data preprocessing, feature engineering, model training (regression, classification, clustering), hyperparameter tuning, and performance evaluation across 8+ real-world datasetsDeveloped 5+ production-ready projects including predictive models, customer segmentation analysis, and interactive dashboards, demonstrating proficiency in the complete data science workflowMastered core ML algorithms (Linear/Logistic Regression, Decision Trees, Random Forest, SVM, K-Means, Neural Networks) with implementation from scratch and using Scikit-learn and TensorFlow | |

PROJECTS

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| Conversational AI Chatbot | <i>Python, LangChain, OpenAI API, RAG, Streamlit</i> |
| <ul style="list-style-type: none">Developed a domain-specific chatbot using retrieval-augmented generation (RAG) achieving 85% answer accuracy on technical queriesImplemented prompt engineering techniques to optimize response quality and reduce hallucinationsIntegrated vector databases (Pinecone/FAISS) for semantic search across 10K+ documentsBuilt REST API endpoints for real-time inference with <200ms latency | |
| Real-Time Object Detection System | <i>TensorFlow, OpenCV, YOLOv8, Python, MLflow, Git</i> |
| <ul style="list-style-type: none">Built 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 augmentation strategies.Optimized inference with TensorRT to reach 30 FPS, reducing latency from 45ms to 18ms.Tracked experiments and versions using MLflow and Git. | |
| Test Bench Time Optimization | <i>Python, TensorFlow, XGBoost, Scikit-learn, Pandas</i> |
| <ul style="list-style-type: none">Reduced vehicle test duration by 12–15% using ensemble deep learning models.Implemented an MLOps workflow with automated tuning, DVC version control, and MLflow tracking.Processed 420K+ records and used PCA to reduce dimensionality from 3700 to 300 features. | |

Uber Rides Analytics Dashboard

Tableau, SQL, Excel

- Designed an interactive Tableau dashboard analyzing **50K+ Uber ride records** for revenue, cancellations, and ratings.
- Built KPIs for ride volume, revenue by vehicle type, cancellation trends, and rating comparisons.
- Improved reporting efficiency by **40%**, cutting manual analysis time from 5 hours/week to under 3 hours/week.

SKILLS

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

Data & BI Tools: MLflow, Tableau, Looker Studio, Excel

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

Other Tools: JupyterLab, Git, VSCode, Google Analytics