Saksham Parashar

sakshamparasher1200@gmail.com | +91-6394609526

EDUCATION

LOVELY PROFESSIONAL UNIVERSITY
B.Tech - CSE; CGPA: 7.21
Since August 2021
Punjab, India

METROPOLITAN SCHOOL
12th | ISC
March 2020 | India
Gorakhpur, India

LINKS

Github:// sakshamparashar
LinkedIn:// sakshamparashar
LeetCode:// sakshamparashar

SKILLS

PROGRAMMING
Java • Python • SQL • PyTorch
TensorFlow • Scikit-learn • Pandas
NumPy • YOLOv8 • OpenCV • ONNX

DATABASES & BIG DATA
PostgreSQL • MySQL • MongoDB
Apache Spark • Kaggle • Tableau • PowerBI

Familiar:
C++ • HTML • CSS • JavaScript
Docker • AWS (S3, SageMaker)

OTHER
Git • GitHub • Hugging Face Transformers
Jira • AWS • Apache Hadoop • Keras
Agile/Scrum • Jupyter Notebook • NLP

CERTIFICATIONS

- Accelerating Deep Learning with GPUs
  See Credentials

- Data Analytics Job Simulation
  See Credentials

- Solutions Architecture Job Simulation
  See Credentials

ACHIEVEMENTS

- Solved 100+ questions on **LeetCode**.
- Organized a workshop on **Correcting English Pronunciation** and **Delivery**.
- Received certificate of **distinction** for **football excellence** in 9th, 10th, 11th and 12th grade.

EXPERIENCE

Total Experience - 6+ Months

DIAGNOCARE INDIA PVT. LTD | Database & ERP Analyst Intern
June 2025 - Sept 2025 | Gorakhpur, India
(Internship 2)

- Executed **technical analysis** and optimization of relational **SQL databases** managing over 3000 transactional queries across inventory, client, and billing modules; improved **data integrity** and reduced **query latency by 25%** through indexing, joins optimization, and schema refinement.

- Conducted in-depth **root cause analysis** on **data anomalies** within key **ERP modules** (Inventory, Client, Billing), using complex **SQL queries** to investigate **data lineage** and identify **process bottlenecks**, significantly improving the **reliability** of **operational reporting**.

- Partnered with **business stakeholders** to translate operational needs into **data requirements**, authoring custom **SQL scripts** to perform rigorous **backend data validation** and ensure high **data integrity** for all **downstream analysis**.

TECHVANTO ACADEMY | Data Science Intern
Jun 2023 – July 2023 | New Delhi, India
(Internship 1)

- Engineered an end-to-end **machine learning pipeline**, from **data ingestion** and **cleaning** to model training, performing Exploratory Data Analysis (EDA) with **Matplotlib** and **Seaborn** and implementing **feature engineering** and **data preprocessing** using **Python** libraries (**Pandas**, **NumPy**, **Scikit-learn**).

- Deployed a **supervised learning** (**classification**) model by translating **business requirements** into technical specifications within a weekly **Agile sprint**, utilizing **Git** for **version control** and collaborating to define key **performance indicators (KPIs)**.

- Optimized model performance through systematic **hyperparameter tuning** (GridSearchCV) and validated results using rigorous techniques like **k-fold cross-validation**; evaluated model efficacy using metrics such as **Precision**, **Recall**, and the **AUC-ROC curve** to ensure robustness and high **predictive accuracy**.

PROJECTS

REAL-TIME TRAFFIC OPTIMIZATION VIA COMPUTER-VISION | Machine Learning Project
Jan 2025 - April 2025

Engineered an end-to-end intelligent traffic management system by deploying a **YOLOv8** model for **real-time vehicle detection** and implementing a **predictive algorithm** that reduced average vehicle wait times by **30%** and efficiently increased intersection throughput by **15%** (model mAP@0.5 of **0.80**); co-authored and published the system's architecture and findings in a **peer-reviewed EDAS research paper**, managing the project lifecycle with **Git** and **OpenCV**.