

Shashank Chauhan

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Aspiring Data Analyst skilled in data analytics, machine learning, and visualization using Python, SQL, and Power BI.

EDUCATION

Indian Institute of Technology, Jodhpur, *B.Tech in Artificial Intelligence and Data Science* | Rajasthan, India

Dec 2025

Courses: Data Structure and Algorithms| Deep Learning| Pattern Recognition and Machine Learning| Data Engineering| Statistical Inference and Simulation Techniques| Probability Statistics and Stochastic Processes| Design and Analysis of Algorithms| Artificial Intelligence.

EXPERIENCE

Indian Institute of Technology, Indore, *Graph's k-Path Partition Intern* | MP, India)

May 2025 - Jun 2025

- Extended Bellman-Held-Karp dynamic programming algorithm to support k-parameterized path partitions, reducing computational redundancy and enhancing performance in $O^*(4^n)$ time and $O^*(2^{n+1})$ space.
- Demonstrated significant computational gains through dynamic programming optimizations and parallelization.
- Applied improved algorithms to real-world datasets in protein networks, robotics, and transit planning.

SKILLS

Languages	C/C++, Python, HTML, CSS, JavaScript, SQL, LaTeX
Analytics	SQL, Python, Power BI, Excel, MySQL, Google Colab, Pandas, Matplotlib, Sklearn, Seaborn, Numpy
Machine Learning	Python, Google Colab, Scikit-learn, TensorFlow, PyTorch, Keras, Pandas
Web Development	HTML, CSS, JavaScript, React, TailwindCSS

CERTIFICATES

Career Essentials in Data Analysis | Microsoft & LinkedIn | Certificate

Jul 2025

- Gained hands-on experience in Excel, Power BI, SQL for data analysis and visualization.
- Learned best practices for cleaning, transforming, and analyzing datasets.

PROJECTS

Customer Retention & Churn Prediction | GitHub

Jun 2025 - Jul 2025

- Built a data pipeline analyzing 500K+ records to predict customer churn using SQL, Python, and Power BI, achieving highly accurate results.
- Segmented customers using RFM analysis and KMeans clustering, leading to targeted retention strategies.
- Designed interactive dashboards to visualize churn risk and behavior trends, improving stakeholder insights.

Ola Data Analytics Project | GitHub

May 2025 - Jun 2025

- Analyzed 100K+ booking records to extract business insights, creating SQL views and KPIs for ride metrics, ratings, and cancellations.
- Built dashboards in Power BI to highlight peak demand periods and high-value customers, informing operational strategy.

Fruit & Vegetables Recognition | GitHub

Apr 2023 - May 2023

- Developed a real-time fruit/vegetable classification system using CNN, RCNN, and SSD, achieving high accuracy on 3800+ image dataset.
- Optimized lightweight model deployment for real-time recognition using TensorFlow and Keras.

RESEARCH PAPER

Exact and Parameterized Algorithms for Window Minimization in Bipartite Arrangement

Jun 2024 - Nov 2024

| CIAC, 2025 | Rome, Italy | Springer Publishers

- Proposed $O^*(4.36^n \cdot 2^{p+n+b})$ and $O^*(4.36^n \cdot 2^{p+n+b})$ time algorithms for bipartite graph window minimization, applying combinatorial optimization.
- Developed parameterized FPT algorithms using graph drawing and complexity techniques.

POSITIONS OF RESPONSIBILITIES

Member, Board of Academic Interaction | IIT Jodhpur

Dec 2021 - Jul 2025

Class Representative, B21 AI & Data Science | IIT Jodhpur

Dec 2021 - Jul 2025

Head, PR & Marketing, Aaftaab Fest | IIT Jodhpur

Jan 2024 - Feb 2024