

# ASHOK KUMAR

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Barmer, Rajasthan  
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Portfolio

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## Summary

Data Science Engineer with skilled in Python, SQL, and Machine Learning. Successfully built projects like Road Lane Line Detection, HeartHealth Predictor, and an eCommerce website. Proficient in version control with Git/GitHub, with additional experience in C++, Frontend, Django, Flask, Docker, and AWS. Currently expanding skills in Deep Learning.

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## Projects

- **Road Lane Line Detection**  
*Technologies:* Python, OpenCV, NumPy  
Developed a lane detection system for Advanced Driver Assistance Systems, using edge detection, region selection, and Hough Transform for robust lane detection in real-time.
  - **HeartHealth Predictor**  
*Technologies:* Python, Scikit-Learn, Pandas, NumPy  
Created a model to predict heart disease risk using health data, achieving high accuracy through model tuning and cross-validation.
  - **eCommerce Website**  
*Technologies:* Django, HTML, CSS, JavaScript  
Built a functional eCommerce site with user authentication, cart management, and admin dashboard. Integrated secure payment and inventory/order management.
  - **News Summarizer**  
*Technologies:* Python, MongoDB, Langchain, Llama  
Developed a tool for web-scraping and NLP-based news summarization with efficient database storage for enhanced search and retrieval.
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## Technical Skills

- **Languages:** Python, C++
  - **Frontend:** HTML, CSS, JavaScript (Django, Flask)
  - **Databases:** SQL, MySQL, MongoDB, SQLite
  - **Data Analysis:** Pandas, NumPy, Scikit-Learn
  - **Data Visualization:** Matplotlib, Seaborn
  - **Other:** AWS, Linux, Docker, ChatGPT, Git/GitHub, Jupyter, Google Colab
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## Education

Bachelor of Technology in Artificial Intelligence and Data Science (CGPA: 8.60)  
Engineering College Bikaner | Expected August 2026