

# Shubham Kumar Singh

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## SKILLS

- **Languages:** C/C++, Python, SQL
- **Frameworks & Libraries:** TensorFlow, Scikit-Learn, Seaborn, Flask, OpenCV
- **Tools/Platforms:** Git, GitHub, Jupyter Notebook, Google Colab
- **Core Subject:** Data Structures & Algorithms, Operating Systems, Computer Networks
- **Soft Skills:** Problem-Solving, Team Collaboration, Project Management, Adaptability

## PROJECTS

- **AI-BASED WATER QUALITY & ENCROACHMENT ANALYSIS** April 2025
  - Built a ML pipeline for chemical parameter analysis (pH, turbidity, sulfate, hardness), achieving 85% accuracy in water quality prediction.
  - Applied image processing and computer vision to detect encroachments, pollution levels in water bodies and reduce manual inspection effort by 40%.
  - TECH: Flask, TensorFlow, OpenCV
- **ONLINE PAYMENTS FRAUD DETECTION** Jan 2025
  - Developed a machine learning model to detect fraudulent online payment transactions using a Decision Tree Classifier, achieving 99.97% accuracy on test data.
  - Performed data preprocessing and exploratory data analysis (EDA) to identify key fraud patterns and improve model reliability through visualization and feature optimization.
  - TECH: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Plotly
- **SMART FINANCIAL ASSISTANT CHATBOT FOR BUDGET PLANNING** Nov 2024
  - Developed an interactive chatbot for personal budget planning and financial management, enabling users to track expenses, set savings goals, and receive smart budgeting insights.
  - Built and deployed a user-friendly web interface using Flask, enabling seamless user interaction and real-time chatbot conversations
  - TECH: Python, Flask

## CERTIFICATES

- Oracle Cloud Infrastructure Professional – **Data Science** Sep 2025
- Oracle Cloud Infrastructure Professional – **Generative AI** Aug 2025
- Responsive Web Design – **FreeCodeCamp** Jan 2024

## ACHIEVEMENTS

- **Participated in Webकर्ता Hackathon**  
Contributed to a Rapid Car Rental Booking Web Application using HTML, CSS and JS within 24 hours.
- **Community Development Volunteer**  
Contributed to the education and skill development of differently-abled children by organizing interactive learning sessions and providing personalized support to enhance their academic growth and confidence.

## EDUCATION

- **Lovely Professional University** Punjab, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 7.96* Since August 2023
- **Sree Ayyappa Public School** Bokaro, Jharkhand  
*Intermediate; Percentage: 84.2%* April 2020 - March 2022
- **Takshila School** Gaya, Bihar  
*Matriculation; Percentage: 89.2%* April 2018 - March 2020