



# Diwan Singh Chauhan

## Data Scientist

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[Linkedln](https://www.linkedin.com/in/diwansinghchauhan/) :- linkedin.com/in/diwansinghchauhan/

[GitHub](https://github.com/diwansinghchauhan) :- github.com/diwansinghchauhan

[Portfolio](https://diwansinghchauhan.github.io/portfolio/) :- diwansinghchauhan.github.io/portfolio/

### Objective

Seeking a position as a Data Scientist where I can utilize my analytical skills and knowledge of statistical methods to extract insights from data, contributing to informed decision-making. Committed to applying machine learning algorithms and data visualization techniques to solve real-world problems effectively.

### Academic Credentials

- **Master of Technology in Data Science (pursuing)**  
Defence Institute of Advanced Technology, Girinagar, Pune 2023-Present
- **M.Tech. (Metallurgical and Materials Engineering)**  
IIT ROORKEE (2014-16) with 7.088 CGPA.
- **B.Tech. (Mechanical Engineering)**  
Galgotias College of Engineering & Technology (2009-13), Secured 73.74% marks
- **XII (Science)**  
Passed in 2008. Secured 78% marks.
- **X (Science)**  
Passed in 2006. Secured 73% marks.

### Skills Summary

- **Data Science / Machine Learning:** Python, Machine Learning algorithm, Analytical Skills, Data Analyst, Data Visualisation, Numpy, Pandas, Scikit-Learn, Matplotlib, Seaborn, Algebra, Probability, Statistics, Calculus, Matrices, Pycharm, Tableau, Natural Language Processing, MySQL, MongoDB, SQL, NoSQL, AI, ML, Analytics, Computer Vision, Deep Learning
- **Soft Skills:** Collaborator, Planner, Problem Solver, Analytical, Multi-tasker, Flexible, Excellent verbal and written communication skills

### Certifications

- Python Core Programming Course (05/2023 - 07/2023) [CERTIFICATE](#)
- Expert in Machine Learning & Data Analysis (07/2023 - 12/2023) [CERTIFICATE](#)
- Certified Quality Core tools by Quality Hub India (05/2020)
- Professional in Product Design in Auto Cad & Solid Woks.

### Projects

- **Laptop Price Predictor Project** [Link](#)
  - Created a tool to predict laptop prices using linear regression.
  - Developed a user-friendly interface with Streamlit to make it easy for users to interact with the predictor.
  - Successfully deployed the app on Streamlit Community Cloud for wider accessibility.
  - Demonstrated skills in machine learning, software development, and cloud deployment through this project.
- **Hand Gesture-Based Controls for Virtual Object Interaction** [Link](#)
  - Real-time hand tracking using OpenCV and CVZone.

- Integration of hand tracking data into Unity 3D environment.
- Implementation of hand gesture-based controls for interacting with virtual objects.
- Utilization of Visual Studio Code for writing C# code for seamless integration.
- **An API based NLP application created using Tkinter and OOP [LINK](#)**
  - NLP application constructed with Tkinter and OOP principles.
  - Offers text analysis functionalities through APIs.
  - GUI enables user-friendly interaction with the application.
  - Users input text and conduct NLP analysis effortlessly.
- **Created Story on 120 Years of Olympic History on Tableau [LINK](#)**
  - Developed comprehensive Tableau visualization of 120 years of Olympic history.
  - Highlighted key events, medal counts, and participating countries.
  - Utilized data analytics techniques for insightful presentation.
  - Employed visualization techniques for engaging and informative display.

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## Work Experience

- **Aug'17 to July'23 in Balaji Aluminium Extrusions Pvt. Ltd as Quality Assurance Engineer**

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## Accountabilities

- **Quality Management Expertise:** Proficient in maintaining quality documents, conducting internal audits, and implementing improvement methodologies like Kaizen and problem-solving techniques to enhance product quality.
- **Technical Proficiency:** Skilled in utilizing advanced testing and inspection techniques, including statistical process control (SPC), metallography, and CAD software (Solid Works), ensuring compliance with design specifications and technical standards.
- **Problem Resolution and Continuous Improvement:** Experienced in root cause analysis, CAPA implementation, and utilizing QC tools to address customer complaints, reduce rejection rates, and drive continuous improvement initiatives throughout the production process.

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## Personal Details

- **Linguistic Abilities:** English, Hindi
- **Nationality:** Indian
- **Marital status:** Unmarried
- **Address:** Udham Singh Nagar, Uttarakhand