

# KIRAN KUMAR SAHU

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

## SUMMARY

Detail-oriented data analyst with a strong foundation in data analysis, machine learning, and data visualization. Proficient in Python for machine learning and deep learning, skilled in data visualization using Power BI and Excel, and experience in handling large datasets. Proven track record of thriving in dynamic, cross-functional environments while maintaining a keen eye for detail. Exceptional communication skills round out expertise, enabling effective collaboration with diverse teams.

## EDUCATION

### MCA - Artificial Intelligence & Machine Learning

2023 - 2025

Chandigarh University, Mohali  
Pursuing

### BCA – Computer Application

2020 - 2023

Rourkela Institute of Management Studies, Rourkela, Odisha  
CGPA: 8.14

## TECHNICAL SKILLS

- **Data Analysis & Visualization:** Excel (advanced), Power BI, Seaborn, Matplotlib, Plotly
- **Programming Languages:** Python (Numpy, Pandas, Sklearn), SQL
- **Machine Learning & Deep Learning:** Tensorflow, Keras, Pytorch, OpenCV, NLP
- **Database Management:** SQL (MySQL, PostgreSQL)
- **Web Development & Deployment:** Flask, HTML, CSS, JavaScript

## PROJECTS

### Facial Recognition System (Siamese Neural Network) (Deep Learning):

[\[Project Link\]](#)

- Built a robust facial recognition system using a Siamese neural network, achieving high accuracy in identity verification.
- Leveraged MediaPipe for real-time face detection, followed by data augmentation and embedding techniques.
- Implemented a binary cross-entropy loss function and Adam optimizer to enhance model performance.

### Credit Card Fraud Detection (Machine Learning)

[\[Project Link\]](#)

- Applied **Stochastic Gradient Classifier** with **Grid Search CV** for robust fraud detection.
- Addressed data imbalance and skew using the **Box-Cox** technique for better model accuracy.
- Utilized **data normalization** and feature scaling to handle high variance in features.

### Movie Recommendation System (Machine Learning)

[\[Project Link\]](#)

- Leveraged **NLP techniques** to analyze movie descriptions for personalized recommendations.
- Employed **Cosine Similarity** to recommend movies with similar content.
- Data preprocessing involved **feature extraction** and handling missing values to improve recommendations.

### Diabetes Prediction System (Machine Learning)

[\[Project Link\]](#)

- Developed classification models using **Logistic Regression**, **Decision Tree Classifier**, and **Support Vector Classifier** to achieve high prediction accuracy.
- Applied **Hyperparameter Tuning** using **GridSearchCV** to optimize model performance.
- Performed extensive **data wrangling**, **feature selection**, and handling of missing values.

### Sales Dashboard for Atlitic Hardware (Power BI, Excel, SQL):

[\[Project Link\]](#)

- Designed an interactive Power BI dashboard integrating data from Excel and SQL to analyze sales performance across multiple regions.
- Utilized advanced data cleaning and transformation techniques to ensure data accuracy and consistency.
- Provided insights into sales trends, product performance, and revenue growth, driving strategic decision-making.

### Road Accident Dashboard (Excel):

[\[Project Link\]](#)

- Developed a comprehensive Excel-based dashboard to analyze road accident data, identifying key trends and risk factors.
- Created dynamic charts and pivot tables to track accident frequency by location, time, and severity.
- Presented actionable insights to reduce accident rates by highlighting peak accident zones and times.

## EXPERIENCE

### Data Science Intern

Acmegrade | Feb 2024 - Apr 2024

- Conducted data pre-processing, EDA, and feature engineering.
- Developed data visualization dashboards using Power BI and Excel.
- Created machine learning models for various business needs.

### Machine Learning Intern

The Sparks Foundation | Jun 2024 - Jul 2024

- Performed exploratory data analysis and feature engineering to derive insights.
- Built and validated machine learning models using cross-validation techniques.
- Generated reports to communicate findings to stakeholders.

### Full Stack Web Developer Intern

Solar Secure Solutions | Oct 2023 - Dec 2023

- Developed and maintained web applications using front-end and back-end technologies.
- Improved efficiency of web applications through problem-solving and optimization.
- She collaborated with cross-functional teams to meet project objectives.

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## COURSE

- ◆ Python for Data Science | University of Michigan, Coursera | 2023
- ◆ IBM Data Analyst Professional Certificate | IBM, Coursera | 2024