DHIRAJ KUMAR

Artificial Intelligence || Machine Learning || Data Science

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Professional Summary

Machine Learning & Data Science enthusiast with hands-on experience in building predictive models, deep learning systems, and computer vision applications. Passionate about building data-driven solutions and contributing to real-world applications. Strong foundation in ML algorithms, data structures, and end-to-end model development.

Education

B.Tech (Hons.) CSE(AI) - CSVTU Bhilai SPI-8.56, 2023 – 2027
Senior Secondary (Class XII) - BSEB 88%, 2021 – 2022
Secondary School (Class X) - BSEB 88%, 2019 – 2020

Experience

Machine Learning Intern (On-Site),Jan 2026 – June 2026 **STEMbotix Pvt. Ltd., Gandhinagar**

- Developed and optimized machine learning models for real-world AI & Robotics applications in STEM education. Built a complete Inventory Management System for product, stock, and record management using web development technologies.

Data Science Intern (Remote),Jan 2026 – June 2026 **IISER Bhopal, Madhya Pradesh**

- Worked on image data tampering techniques using COCO dataset with computer vision and machine learning. Performed pre-processing, feature extraction, model development, blending, and benchmarking to improve accuracy.

Summer Intern (On-Site), May 2025 – July 2025 **NIT Patna, Bihar**

- Conducted comparative study of deep learning models (LeNet, ResNet, Transformer, VGG16) on MNIST dataset. Evaluated performance using accuracy, precision, and recall.

Data Analytics & Visualization Workshop (On-Site), July 2025 **IIT Bhilai, Chhattisgarh**

- In this one week DAV workshop, Learned Python-based data analysis and exploratory data analysis (EDA). Worked with Pandas, Matplotlib, Seaborn, and Plotly for data visualization. Created interactive models and performed analysis on real-world datasets.

Projects

Students Performance Predictor GitHub May 2025

- Developed a ML model to predict student's exam percentage using attendance, IQ level, and daily study hours.Implemented data pre-processing, Linear Regression model training, and interactive deployment on real college dataset.

Movie Review Sentiment Analysis GitHub June 2025

- Built a Deep Learning Neural Network in TensorFlow for binary sentiment classification (Positive/Negative) of movie reviews.Trained on labeled dataset for accurate text classification.

Image Recognition System For Fraud Detection GitHub Dec 2025

- Designed ResNet-50 based system using CASIA tampered image dataset to detect authentic vs manipulated images.Achieved accurate classification of fraud images through computer vision pipeline.

Technical Skills

- **Programming Languages:** Python, R , C++, C
- **Machine Learning & Data Science:** Classification, Regression, Feature Engineering, Model Evaluation, Data Pre-processing, Statistical Analysis, SQL, Neural Networks, Image Classification, CNN, ANN, RNN
- **Libraries & Frameworks:** NumPy, Pandas, TensorFlow, Seaborn, Matplotlib, Plotly, Scikit-Learn, PyTorch, Keras, Scikit-learn
- **Tools:** Jupyter Notebook, Visual Studio, Git, GitHub,Windows, Linux, Android, Vercel, VPS, Render

Extra Curricular Activities

- Core Member – Nextronix (Official Robotics Club of UTD CSVTU, Bhilai)
- Active Member – Programmers' Paradise (Official Coding Club of UTD CSVTU, Bhilai)
- Member – Training and Placement Cell, UTD CSVTU Bhilai
- Volunteer – National Service Scheme (NSS)