

ABHISHEK KUMAR DUBEY

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🐙 <https://github.com/justabhishek23022002>

Analytically minded and results-driven professional with a strong foundation in Mathematics and specialized expertise in Data Science. Eager to leverage advanced analytical, mathematical, and technical skills to tackle complex challenges and drive strategic decision-making processes. Seeking opportunities to apply my expertise in analyzing large datasets to generate actionable insights for organizational growth and success.

Key Skills

- ★ **Programming Languages:** Python (for Analysis, Data Science), R, C
- ★ **Software and Libraries:** Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Keras, NLP, TF-IDF, Tensorflow, Selenium, Airflow, Pytorch, OpenCv, PySpark, YOLO
- ★ **Analysis & Visualization:** Tableau, Excel, Power BI
- ★ **Cloud/Databases:** SQL

Projects

Tire Defect Detection using Machine Learning and Deep Learning | *Python, ML, DL* Dec 2024 - Ongoing

- The project we can Implemented SVM, KNN, Decision Trees, and Random Forest for defect classification.
- I Developed a deep learning-based CNN model, achieving 98.4% accuracy.
- I trained ML model using various techniques and achieved an accuracy rate of 99%.
- This project aims Integrated YOLO for real-time object detection in industrial applications..

Supervised and Unsupervised Learning Analysis | *Python, ML* Jun 2024 - Dec 2024

- I have applied ML techniques to analyze economic mobility and gene expression data.
- I developed predictive models and implemented K-means clustering for feature grouping

Leaf Disease Detection using Image Processing and SVM | *Python, ML* February 2024 - May 2024

- I converted leaf images from RGB to HSV for improved color differentiation, then used image segmentation to isolate potentially infected areas, masking out healthy green regions.
 - I trained a Support Vector Machine (SVM) to classify leaves as either healthy or infected based on the segmented images.
- This approach provides early detection of plant diseases, enabling timely interventions in agricultural settings.

Summer Internship

Presidency University Kolkata

Data Science Intern Jun.2024-Nov.2024

- I worked on Applied supervised and unsupervised learning techniques to analyze economic mobility and gene expression data. Developed predictive models and used clustering and classification methods to extract key insights.

Virtual Internship

Data Science Intern Delhi

Oasis Infobyte Feb.2024-Mar.2024

- Worked on ML projects including sales forecasting, unemployment analysis, and email spam detection.

Machine Learning Intern Pune

Cognifyz Technologies Mar.2024-Apr.2024

- Developed ML models for stock price prediction and handwritten digit recognition using CNN.

Education

Institute of Mathematics & Applications 2023 – 2025

Master's in Mathematics with Data Science CGPA- 8.3 Bhubaneswar, Odisha

Calcutta University 2019 – 2022

B.sc(Honours) in Mathematics, CGPA- 7.8 Kolkata, West Bengal

Certificates

1. Winter School Course on Deep Learning, Generative AI, LLM (CSI Kolkata Chapter)
(Studied advanced topics in AI, machine learning, and deep learning models.) Mar. 2024 - May 2024