

Rakesh Sharma *Data Scientist*

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📍 Bengaluru, India

EDUCATION

Bachelor of Technology in Computer Science and Engineering,
Centurion University of Technology and Management 📄
Domain Specialization :- Data Science and Machine Learning
GPA - 3.58/4.0 | CGPA - 8.94/10.0

2019 – 2023 | Bhubaneswar, India

PROFESSIONAL EXPERIENCE

AI Intern, Rubix AI

07/2024 – present | Bengaluru

- Designed and implemented deep learning models to enhance data-driven decision-making and optimize predictive accuracy.
- Analyzed and processed large-scale datasets using big data frameworks, improving data efficiency and scalability.

Software Developer, Searchingyard Software Pvt Ltd

06/2023 – 05/2024 | Bhubaneswar, India

- Conducted in-depth analysis on provided data using various data analysis methodology to enhance decision making capabilities with insightful outcomes gathered from analysis.
- Collaborated with cross-functional teams to deliver scalable data-driven and web-based solutions, improving user engagement and operational efficiency.

CERTIFICATES

• Microsoft Certified: Azure Fundamentals
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• Microsoft Certified: Azure AI Fundamentals
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• Microsoft Certified: Azure Data Fundamentals
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RESEARCH PUBLICATIONS

Tomato Leaf Disease Detection using Machine Learning,

2022

International Health Informatics Conference 📄

Accepted in International Health Informatics Conference Scopus indexed, 2022.

Flight Price Prediction Using Machine Learning,

2022

International Health Informatics Conference 📄

Accepted in International Health Informatics Conference, Scopus indexed, 2022.

Student Attendance System Based on Face Recognition and Machine Learning,

2022

International Health Informatics Conference 📄

Accepted in International Health Informatics Conference, Scopus indexed, 2022.

SKILLS & TOOLS

DS & ML

Python, R(Basics)

Cloud Computing

Azure, AWS

Database

MySQL, MongoDB

Version Control

Git, GitHub

Data Visualization

Microsoft Power BI, Tableau

Big Data

Pyspark

Microsoft Office

MS-Word, MS-Excel, MS-PowerPoint

Image Processing Tools

ERDAS Imagine, Arc-GIS, ENVI, QGIS

Web Development

NextJs, Tailwind Css, API Integration

PROJECTS

Automated Attendance System, Using Face Recognition

11/2023 – 02/2024

- Designed and implemented a real-time student attendance system using advanced facial recognition technology.
- Achieved exceptional accuracy rates of 96.82% with CNN and 96.97% with ResNet50 through comprehensive model training, testing, and optimization.
- Automated attendance record generation into structured .csv files, ensuring streamlined data management and enhanced operational efficiency.
- Technology:- Image recognition, Computer Vision, Deep Learning

E-Commerce Data Analysis and Visualization, Using Power BI

07/2023 – 11/2023

- Analyzed purchase activity, growth rate, top 10 markets, top categories, and payment methods by conducting data cleaning, preprocessing, and statistical analysis to identify key trends and insights.
- Created interactive dashboards with detailed static charts uncovering top markets, best-selling categories, and customer payment preferences.
- Delivered actionable insights to stakeholders, driving data-informed decision-making and enhancing business strategy alignment.
- Technology:- Exploratory Data Analysis, Big Data, PowerBI, Data Visualization

Pests and Diseases Detection in Rice Plant, Using Deep Learning

01/2022 – 02/2023

- Conducted advanced deep learning modeling to achieve a high accuracy rate of 96% in identifying pests and diseases in rice plants.
- Designed and deployed the model through a Flask server, ensuring efficient and scalable implementation.
- Developed a user-centric web application for real-time detection and identification, enhancing accessibility and usability.
- Engineered a mobile application to extend functionality to Android devices, enabling on-the-go detection and management solutions.
- Technology:- Deep Learning, Computer Vision, Web Development, Android App Development

LULC Change Detection of Khorda District, using Multispectral Image Processing

06/2022 – 07/2022

- Conducted a comprehensive analysis of geographical changes over a 6-year period leveraging multispectral image processing techniques.
- Quantified the extent of changes by plotting spectral reflectance curves, providing data-driven insights.
- Delivered actionable insights to support urban planning, environmental monitoring, and sustainable resource management initiatives.
- Technology:- GIS, Erdas Imagine, Arc-GIS