

# Rohan Jain

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## SKILLS

- **Programming**: Python, R, SQL(MySQL, PostgreSQL), MongoDB.
- **Framework/Tools**: Tableau, Power BI, Excel, AWS, Azure, Apache Spark.
- **Libraries**: Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, Keras, Matplotlib, Seaborn, Plotly.
- **Machine Learning & AI**: Supervised and unsupervised learning, predictive modeling, natural language processing (NLP), recommendation systems, time series analysis.

## EXPERIENCE

### CodSoft, Data Science Intern

Jul 2023 – Dec 2023 | MUMBAI, India

- Developed and deployed machine learning models for sales forecasting and fraud detection using **Scikit-learn**, improving prediction accuracy by 12% and enhancing client application functionality.
- Cleaned and preprocessed 52,000+ data points using **Pandas** and **NumPy**, improving model accuracy by 12% and ensuring high-quality training data for seamless production deployment.
- Collaborated with developers to deploy **AI models** on client websites, optimizing data pipelines and troubleshooting integration issues, reducing deployment time by 22%.

### Let'sGrowMore, Web Dev Intern

Apr 2023 – Jun 2023 | MUMBAI, India

- Developed a full-stack **Student Management System** using **React Redux**, and **SQL queries**, optimizing data retrieval and reducing management time by 28.3%, improving overall system efficiency.
- Designed dynamic and responsive websites that improved user engagement and contributed to a **16.4% increase** in user retention through intuitive navigation and interactive elements.
- Optimized **SQL** queries for faster data retrieval, improving overall system performance by **22.6%**, while collaborating with a team to integrate **APIs** and backend services for seamless data flow.

## PROJECTS

### Data Integration Solution for Denver International Airport

Oct 2024 – Oct 2024

- Led a team to develop a data-driven business analytics dashboard using **Power BI** and **Tableau**, achieving 3rd place in a hackathon for innovation and impact.
- Developed a **Power BI** dashboard integrating **ServiceNow** and **Azure DevOps** data, enhancing operational transparency and workflow tracking for airport management, while mentoring the team in **business analytics** and **data visualization** techniques to improve response times and decision-making.

### Yoga Posture Detection & Correction | Python, TensorFlow, MoveNet

Jul 2023 – May 2024

- Led a team in developing a **Feedforward Neural Network (FNN)** achieving **96.5% accuracy** in yoga pose estimation, collecting and processing multi-user data to enhance model training and improve posture recognition.
- Designed and implemented real-time pose correction algorithms using **TensorFlow.js**, integrating them into a web application to provide instant feedback, enabling users to monitor performance and receive personalized recommendations.

### AgriAdvisor | Python, Flask, JavaScript

Aug 2021 – May 2022

- Developed a web-based platform utilizing machine learning and deep learning for crop recommendations, fertilizer optimization, and plant disease prediction, achieving high accuracy with models like **XGBoost (99.32%)** and **Random Forest (99.09%)**.
- Deployed an interactive web application that allows users to input soil quality parameters (nitrogen, phosphorus, pH, rainfall) to receive real-time crop recommendations, integrating machine learning algorithms to assist farmers in optimizing yield and decision-making.

## EDUCATION

### University Of Colorado, Boulder

Aug 2024 – May 2026 | Boulder, USA

Master's in Data Science (Current GPA: 3.9/4)

### Mumbai University, Rajiv Gandhi Institute of Technology

Jul 2020 – May 2024 | Mumbai, India

Bachelor's of Engineering in Computer Engineering (GPA: 3.7/4)

## CERTIFICATIONS/PUBLICATION

- Completed Full Stack Development (MERN) course and Machine Learning A-ZTM: AI, Python & R + ChatGPT from UDEMY.
- Published a technological paper on Yoga Posture Detection and Correction.  
<https://journals.stmjournals.com/joosdt/article=2024/view=161704/> 