

# DHRUV SOOD

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## EDUCATION

**New York University**, New York, United States  
**Master of Science - Information Systems**

May 2025

**Vellore Institute of Technology**, Tamil Nadu, India  
**Bachelor of Technology - Information Technology**

June 2023

*Relevant Coursework: Data Mining, Database Management Systems, Artificial Intelligence, Project Management, Data Science, Operation Management, Marketing, Finance*

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## TECHNICAL SKILLS

**Programming** – Python (Numpy, Pandas, Scipy, Seaborn, Matplotlib, Tensorflow), C++, Flutter, SQL

**Analytics And ML** – Classification and Regression (SVM, KNN, Gaussian, Random Forest), Visualization, Clustering (K- means, Hierarchical), Exploratory Data Analysis

**Tools** – VS Code, Git, Jira, Tableau, PowerBI, Microsoft Access, Excel, Word, PowerPoint, Data Robot, Roboflow, Pipeline Pilot

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## PROFESSIONAL EXPERIENCE

### DASSAULT SYSTÈMES

2024

#### Machine Learning Engineer Intern

Bengaluru, India

- Contributed to reducing downtime and maintenance costs by 15% through the implementation of a predictive maintenance model, enhancing operational efficiency in automotive welding systems
- Developed a machine learning model with 99% accuracy using class rebalancing techniques and A/B testing to identify the best-performing model
- Utilized ETL (Extract, Transform, Load) processes to efficiently handle and preprocess large sensor datasets, enabling accurate prediction modeling for machine failure and maintenance in automotive welding systems
- Applied statistical analysis using Pipeline Pilot to identify key patterns and trends in sensor data, improving the accuracy of predictive models for machine failure and maintenance by 20%

### ERNST & YOUNG

2023

#### Data Science Intern

Gurgaon, India

- Reduced safety risks by ensuring timely and accurate detection of dashboard warnings, resulting in a 30% decrease in missed alerts and enhancing vehicle safety
- Developed an ML model using the YOLOv7 algorithm to identify warning signal lights in the car dashboard
- Enhanced model accuracy and robustness for the image detection model by applying the bagging technique and using different backbone architectures, achieving 98% accuracy in object identification
- Collaborated with cross-functional teams to integrate the ML model into a mobile app, resulting in a 30% improvement in real-time warning signal detection accuracy

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## ACADEMIC PROJECTS

### Cardiovascular Disease Analysis Using Machine Learning

2024

- Created Tableau dashboards to gain insights into the primary factors contributing to cardiovascular disease, resulting in a 30% increase in clarity regarding the leading cause of the disease
- Analyzed the dataset of about 5,00,000 records and assisted the data science team with data validation
- Performed feature engineering and exploratory data analysis using data robot, improving data comprehensibility by 25%
- Conducted research and delivered data-driven critical insights to diverse stakeholders involved in decision-making

### Deepfake Detection Using Machine Learning

2022

- Developed an ensemble model in Python using Xception and Inception-ResNet-v2 model to identify deepfake media
- Delivered 98.6% accuracy of the model by implementing multi-scale training and optimizing the hyperparameters of the model
- Constructed a custom dataset with over 20,000 photos and 1,000 videos, annotated using Roboflow, ensuring model robustness and effectiveness in distinguishing between real and manipulated media.

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## ADDITIONAL COURSES AND CERTIFICATIONS

Agile with Atlassian Jira – Coursera

2023

Product Management Essentials – University of Maryland

2023

Cloud Computing Foundation – Gold level Certificate by NASSCOM

2021

Artificial Intelligence Foundation – Gold level Certificate by NASSCOM

2021