

# HARSHAN RASU

## Aspiring Data Scientist

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### Profile Summary

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Data Scientist with expertise in predictive modeling, statistical analysis, and AI-driven decision-making. Proficient in Python, SQL, and data visualization. Skilled in machine learning, data preprocessing, and scalable data pipelines. Passionate about applying data science to real-world engineering solutions.

### Technical Skills

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- **Programming Languages:** Python, SQL
- **Data Science & Machine Learning:** TensorFlow, Predictive Modeling, Statistical Analysis, Data Preprocessing
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn
- **Data Visualization tools:** PowerBi , Tableau
- **Development Tools:** FlutterFlow, SQL Databases
- **Other:** Data-Driven Decision Making, Product Innovation, Team Collaboration, Communication Skills

### INTERNSHIP

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#### DATA SCIENCE INTERNSHIP

##### TEACHNOOK (IIT ROORKEE PROGRAM) | JULY 2024 – AUGUST 2024

- Analyzed D-Mart sales trends, customer behavior, and business insights using EDA and machine learning.
- Processed and visualized data with Python, Pandas, NumPy, Matplotlib, and Seaborn.
- Developed predictive models and presented actionable recommendations.
- **Skills Learned :** Data Analysis | EDA | Machine Learning | Python | Data Visualization | Business Analytics

#### DATA ANALYSIS INTERNSHIP

##### YBI FOUNDATION | JULY 2024

- Conducted Handwritten Digit Classification using ML models for high accuracy.
- Preprocessed data, performed EDA, and optimized models (Logistic Regression, SVM, Neural Networks).
- Utilized Python, Pandas, NumPy, Matplotlib, and Scikit-Learn for analysis and visualization.
- **Skills:** Data Analysis | Machine Learning | Python | Data Visualization | Communication

#### FINANCIAL DATA ANALYST INTERNSHIP

##### HARISH ENGINEERING | DEC 2025 – JAN 2025

- Managed billing, quotations, and financial records using Excel.
- Reconciled GST amounts for tax compliance and accuracy.
- Assisted in financial reporting and data validation to enhance data integrity.
- **Skills:** Financial Data Analysis | Excel | GST Reconciliation | Financial Reporting | Data Validation | Tax Compliance

#### DATA SCIENCE & MACHINE LEARNING INTERNSHIP

##### YBI FOUNDATION | JUN 2025 – JUL 2025

- Worked on AI-based healthcare diagnosis and prediction using Python and machine learning models.
- Explored data preprocessing, EDA, and model training in Google Colab to predict health outcomes.
- Built supervised learning pipelines and interpreted model accuracy for actionable insights.
- **Skills:** Skills: Data Science | Machine Learning | Python | Google Colab | EDA | Predictive Modeling | AI in Healthcare

Projects

DMART SALES ANALYSIS

- A comprehensive data analysis project on Dmart sales trends as part of the Teachnook Data Science IIT Roorkee internship.
- Performed exploratory data analysis (EDA) to identify key sales patterns and customer purchasing behavior.
  - Applied statistical techniques and machine learning models to forecast sales trends and optimize inventory management.
  - Developed interactive visualizations to present actionable insights.
- **Technologies Used:** Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

HEALTH DATA ANALYSIS & PREDICTIVE MODEL

- A comprehensive data analysis project on patient health outcomes as part of the Altair Global Student Contest.
- Conducted exploratory data analysis and feature engineering on medical datasets.
  - Built machine learning models to predict patient health outcomes with high accuracy.
- **Technologies Used:** Altair AI Studio, Python, Pandas, Scikit-learn, Matplotlib, Seaborn.

HEALTH DIAGNOSIS PREDICTION USING AI

- A data-driven project focusing on predictive healthcare insights and early disease detection using machine learning.
- Analyzed patient demographic and clinical data to uncover insights into risk factors and disease trends.
  - Built predictive models to forecast medical outcomes, aiding doctors in proactive healthcare decisions.
  - Presented data-driven insights with visual storytelling using dashboards and statistical graphs.
  - Delivered measurable results: Improved diagnostic prediction accuracy and supported use-case validation in real-world medical contexts.
- Tools & Technologies:** Google Colab, Python, Pandas, Scikit-learn, Seaborn, Matplotlib, Business Intelligence concepts

HANDWRITTEN DIGIT ANALYSIS

- A deep learning-based digit recognition model as part of the YBI Foundation Data Analytics Project.
- Trained a CNN on the MNIST dataset, achieving high classification accuracy.
  - Implemented real-time digit recognition using OpenCV for interactive input.
- **Technologies Used:** Python, TensorFlow, Keras, OpenCV, NumPy, Matplotlib.

Publications and Articles

An intelligent system for real-time thief detection and motion monitoring" – Under review for publication on the IEEE Xplore Digital Library (2024).

Education

<b>SNS COLLEGE OF ENGINEERING ( PURSUING )</b> Coimbatore,Tamilnadu CGPA:8.45 <b>Geethaanjali All India Senior Secondary School</b> Erode,Tamilnadu . HSC : 66%	<b>2023 – Present</b>
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Additional Achievement

- **Certifications:** Microsoft Learn Student Ambassadors , TCS ION Career Edge Young Professional , TCS ION - Master Data Management .
- **Awards/Activities:** Student Coordinator for Nova Event 2024. Participated Smart India Hackathon 2024 , IIP (Institution Innovation Council ) -2024 . Completed 38 Microsoft Badges .
- **Languages:** English, Tamil .