

RESHU GUPTA

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Analytical Data Scientist with machine learning, data analysis, and cloud computing, dedicated to extracting actionable insights to drive strategic decisions and operational efficiency across diverse industries. Proficient in advanced modeling techniques and passionate about leveraging data for impactful outcomes.

EDUCATION

INDIANA UNIVERSITY INDIANAPOLIS

Aug 2024, Indianapolis, IN

Masters of Applied Data Science

Maharshi Dayanand University Rohtak Haryana

May 2009, Sonipat, India

Masters in Computer Application

TECHNICAL SKILLS:

Programming Languages: Python (Pandas, NumPy, Matplotlib, Seaborn), R programming, SQL, Java, C/C++

Data Analysis & Visualization: Excel, Tableau, Observable, Streamlit

Machine Learning & Data Modeling: Linear Regression, Random Forest, Logarithmic Transformation, Hyperparameter Tuning with GridSearchCV, Regression Analysis.

Cloud & Project Management: AWS, JIRA, Agile Analytics.

UNIVERSITY PROJECTS

[Visualization of Top 10 Most Populated Countries](#) | Observable

Created a detailed data visualization project showcasing the first 10 most populated countries, utilizing interactive elements and dynamic charts.

COVID-19 INDIA [Dashboard](#) | Observable & Tableau

Developed an interactive COVID-19 dashboard for India, integrating Tableau for data visualization and analysis. The project tracks key metrics such as daily cases, recoveries, and deaths

[Hotel Booking Statistical Analysis](#) | R

Conducted a regression analysis to investigate the relationship between lead time and Average Daily Rate (ADR). Discovered a statistically significant negative correlation, indicating that as lead time increases, ADR tends to decrease.

[Real Estate Price Prediction Model](#) | Python

Developed a machine learning model to predict real estate sale prices based on town and residential type, using Linear Regression and Random Forest algorithms. Implemented comprehensive data preprocessing, feature encoding, and model evaluation, including cross-validation.

Research Experience: Diabetes-Heart-Dynamics

Conducted in-depth research on the relationship between coronary heart disease (CHD) and diabetes mellitus, exploring the prevalence, risk factors, and outcomes in diabetic patients. The study underscored the need for targeted prevention and management strategies in high-risk groups.

Publications

Advanced Cybersecurity: [Leveraging Machine Learning and Deep Learning Techniques](#) | Medium

Authored a comprehensive article on advanced cybersecurity techniques, focusing on the application of machine learning and deep learning for threat detection and prevention.

How We See: [A Visual Representation](#) | Medium

Wrote a detailed post exploring the mechanics of human vision, supported by visual representations and data-driven insights.

Work Experience

Computer Teacher | DICS Sonipat | 1.5 Year

Jun 2009 to Dec 2010

- Teaching in Object-Oriented Languages, DBMS, Networking, System Analysis and Design
- Assist in regularly maintaining the scores of the students and analyzing their performances
- Assist students in making their projects