

# Ritesh Kumar Paswan

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**Portfolio:** [ritesh-portfolio-flax.vercel.app](https://ritesh-portfolio-flax.vercel.app)

## SKILLS

<b>Languages:</b>	Python, Java, C/C++, SQL
<b>Frameworks &amp; Libraries:</b>	Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn
<b>Tools &amp; Platforms:</b>	MySQL, Power BI, Excel, Git, Jupyter Notebook
<b>Core CS Fundamentals:</b>	Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks
<b>Soft Skills:</b>	Problem-Solving, Analytical Thinking, Adaptability, Time Management

## PROJECTS

### Real-Time News Data Pipeline using RSS, Web Scraping & Python | [GitHub Repo](#) Mar' 26 – Mar' 26

- Built an automated news data pipeline by integrating RSS feeds and web scraping techniques, enabling real-time collection of structured data from multiple online sources.
- Implemented data extraction, cleaning, and transformation processes using Python (BeautifulSoup, Pandas), improving data quality and ensuring **~90–95%** accurate parsing of articles.
- Designed a scalable pipeline workflow for continuous data ingestion and storage, reducing manual effort by **100%** and enabling near real-time updates for downstream analysis.

**Tech stack :** Python, BeautifulSoup, Requests, Pandas, RSS Feeds, Web Scraping, Git, GitHub, Streamlit

### Iris Flower Classification using Machine Learning | [GitHub Repo](#) Feb' 26 – Mar' 26

- Built a robust classification model for Iris species prediction using supervised Machine Learning techniques, including data normalization, feature engineering, and model comparison, achieving **~95–98%** accuracy on test data.
- Conducted exploratory data analysis (EDA) and evaluated model performance using metrics such as accuracy, confusion matrix, and **5-fold** cross-validation, ensuring strong generalization with low variance across folds.
- Integrated the trained model into a Streamlit-based web application, enabling real-time predictions with sub-second response time and delivering a smooth, user-friendly interface.

**Tech stack :** Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Streamlit, Jupyter Notebook

### Prison Analytics & Rehabilitation Dashboard (India) | [GitHub Repo](#) Dec' 25 – Dec' 25

- Built a comprehensive **4-page** analytics dashboard by analyzing multi-source Indian prison datasets covering **30+** states/UTs and **~1.3M** inmates, enabling detailed tracking of demographics, rehabilitation, and under-trial indicators.
- Implemented advanced interactive visuals (treemaps, heatmaps, geo maps) and **20+** KPIs using Power BI, effectively highlighting overcrowding levels exceeding **150%** capacity and ensuring clear identification of high-risk regions.
- Developed custom DAX measures (Rehabilitation Rate, Training Coverage, Death Rate, YoY trends) to normalize state-wise data, supporting evidence-based policy insights and delivering clear performance metrics to stakeholders.

**Tech stack :** Power BI, DAX, Power Query, Excel, Data Cleaning

## TRAINING

### From Data To Insights | Centre for Professional Enhancement | [Link](#) Jun' 25 – Jul' 25

- Worked on structured datasets to perform data cleaning, preprocessing, and analysis using Excel and SQL.
- Conducted exploratory data analysis (EDA) and developed interactive Power BI dashboards to extract insights and support decision-making.

**Tech stack :** Excel, SQL, Power BI, Python (Pandas, NumPy)

## CERTIFICATES

- OCI Data Science Professional – Oracle | [Link](#) Oct' 25
- OCI AI Foundations Associate – Oracle | [Link](#) Sep' 25
- Privacy and Security in Online Social Media – NPTEL | [Link](#) Dec' 24

## ACHIEVEMENT

- Solved **100+** coding problems across **LeetCode & GFG** enhancing problem solving skills
- Achieved 1st rank in LexiQuiz** – A Competition on Grammar and Vocabulary :  
Organized by the Centre for Professional Enhancement, Lovely Professional University

## EDUCATION

- Lovely Professional University** Phagwara, Punjab  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 7.14* Aug' 23 - Present
- Divine Public School** Gorakhpur, U.P.  
*Intermediate; Percentage: 62%* Apr' 21 – Mar' 22
- Divine Public School** Gorakhpur, U.P.  
*Matriculation; Percentage: 76%* Apr' 19 – Mar' 20