# Soumya Ranjan Pradhan

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## RESUME OBJECTIVE

Data Scientist with entry level of experience executing data-driven solutions to increase efficiency, accuracy, and utility of internal data processing. Experienced at creating data regression models, using predictive data modelling, and analysing data mining algorithms to deliver insights and implement action-oriented solutions to complex business problems.

## SKILLS

Python, MySql, AWS | Excel, Tableau | Machine Learning

Leadership | Handling Pressure | Collaboration | Problem Solving

**Python:** Pandas, NumPy, Scikit-learn, matplotlib, Seabon.

## PROJECTS

**1. Objective: Developed a machine learning-based system to recommend movies based on user input or preferences.**

Technologies Used: Python, Pandas, NumPy, Scikit-learn.

Key Contributions:

- Processed and merged datasets (movies.csv and credits.csv) to create a unified and enriched data source.
- Implemented vectorization techniques (e.g., CountVectorizer) to generate meaningful feature vectors for movie similarity comparisons.
- Applied cosine similarity for content-based recommendations to ensure accurate and relevant suggestions.
- Optimized the pipeline for scalability and efficiency to handle large datasets.

Outcome: Delivered a system capable of generating precise movie recommendations, enhancing user experience in content discovery.

**2. Objective**: **Analyzed Diwali sales data to identify key trends, customer purchasing behavior, and regional performance to support data-driven sales strategies and decision-making**.

Technologies: Pandas, Matplotlib, Seaborn (for data analysis and visualization)

Key Contributions:

- Preprocessed and cleaned the dataset with over 11,000 records, handling missing values and ensuring data consistency.
- Conducted exploratory data analysis (EDA) to uncover insights into customer demographics, product categories, and sales trends.
- Visualized key findings through heatmaps, bar charts, and other plots to highlight patterns in sales data.
- Examined performance metrics, such as top-selling products, high-revenue regions, and age-group preferences, to derive actionable insights.

Outcome:

- Delivered a data-driven understanding of sales patterns and customer behavior during the festive season.
- Provided recommendations to optimize inventory management and improve future sales strategies.

## EDUCATION:

**Naidu H S School, BBSR**
11th ,12th
2019-2021

**Trident Academy of Technology, BBSR**
*B.tech*
*2025*

**Online Studies:**
Python (Hackerrank), Data visualization(upGrad), AWS, Machine Learning (Youtube)