Subhayan Patra

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Skills

- **Technical Skills:** NumPy ,Pandas ,Seaborn ,Matplotlib ,Statistics & Probability, Machine Learning
- **Tools & Platforms:** MySQL, Jupyter, Tableau ,Power BI , MS Excel
- **Soft Skills:** Problem-Solving, Team Player, Adaptability
- **Languages:** Python, SQL

Projects

Movie Recommend | SKLEARN | NLTK   Jul 2025

- **Collect** movie metadata (title, genres, keywords, cast, etc.) and preprocess using techniques like stemming with PorterStemmer and feature extraction via CountVectorizer.
- **Compute** similarity between movies using cosine_similarity on the extracted feature vectors to identify closely related content.
- **Recommend** top similar movies to a user-selected title based on the highest similarity scores, providing personalized suggestions.

Use Bike Price Prediction | *Random Forest | Linear Regression*   Sep 2025

- **Implemented** Linear Regression and Random Forest Regression models to predict bike prices using structured data.
- **Applied** GridSearchCV for hyperparameter tuning, enhancing model accuracy and reducing error rates.
- **Assessed** model performance through MSE, RMSE, and MAE, ensuring reliable predictive insights.

Employ Hiring Dataset | *Tableau*   Mar 2025

- **Designed** an interactive Tableau dashboard to visualize key employee analytics, including total count, active status, and hiring trends over time.
- **Visualized** demographic and workforce insights such as age distribution, job roles, titles, and geographic spread to support strategic HR decisions.
- **Enabled** stakeholders to quickly interpret workforce composition and hiring patterns through clear, data-driven visual storytelling.

House Price Prediction | *Seaborn | Linear Regression*   Jan 2025

- Cleaned and prepared housing data by handling missing values and formatting features like location size, and amenities
- Visualized data distributions and correlations using Seaborn and Matplotlib to uncover key price driving factors
- Built and evaluated a Linear Regression model to predict house prices, achieving an 'MAPE' 6.64%, indicating high model performance.

Certificates

• Complete Machine Learning & Data Science Programing | GFG	Mar 2025
• Python-for-data-science-and-machine-learning-bootcamp | Udemy	Feb 2025
• Understanding Cloud Fundamentals | Linkedin	Mar 2023

Education

- **Lovely Professional University**   Jalandha**r**,Punjab
  B.Tech. (Hons.) (CSE- Data Science and Data Engineering)   Aug 2022 – Jun 2026
  CGPA: 6.95

- **Khejuri Adarsha Vidyapith**   Contai , West Bengal
  *Intermediate; **Percentage:** 81%*   Apr 2019 - Mar 2021

- **Vivekananda Adarsha Shikshaniketan**   Contai , West Bengal
  *Matriculation; **Percentage:** 86%*   Apr 2017 - Mar 2019