Prarthana Singh

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EDUCATION

**Technocrats Institute of Technology College Nov. 2022 -June 2026**

* Bachelor of Technology - Computer Science & Engineering (*Data Science*) *CGPA: 8.22*

Courses: Data Science, Machine Learning, Analysis of Algorithms

**Saraswati Shishu Mandir School April 2022**

* Class 12th in PCM *Percentage: 91.6%*

SKILLSSUMMARY

* **Languages**: Python, SQL, Java
* **Frameworks**: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Flask, XGBoost
* **Development Tools**: PyCharm, Jupyter Notebook, Visual Studio Code, IntelliJ IDEA
* **Soft Skills**: Time Management, Communication, Problem-Solving
* **Visualization Tools**: Power BI, Tableau
* **Version Control**: Git, GitHub
* **Operating Systems**: Linux

Work EXPERIENCE

**Remote Internship**: **July 2024 – August 2024**

* Worked as a Data Science Intern for 4 weeks (Remote) at CODTECH IT SOLUTIONS.
* Conducted a hotel booking analysis project, utilizing linear regression for predictive modelling and insights generation.

PROJECTS

Hotel Booking Analysis | [GitHub Link](https://github.com/Prarthana-Singh/-Hotel-Booking-Analysis)

* Conducted a comprehensive analysis of hotel booking data to identify key trends and factors influencing bookings.
* Preprocessed the data by handling missing values, outliers, and normalizing key features to ensure model accuracy.
* Applied exploratory data analysis (EDA) to understand the relationship between variables like room type, price, and booking lead time, providing deep insights into booking behavior.

Predictive Modelling with Linear Regression | [GitHub Link](https://github.com/Prarthana-Singh/Predictive-Modeling-with-Linear-Regression)

* Developed a predictive model using linear regression to forecast future hotel bookings, achieving an **R² score of 0.82**, indicating a strong fit between the model and the data.
* The model helped predict booking rates with an **accuracy of 83%**, allowing for better forecasting of demand and optimization of resources for hotel management

**Technologies Used**: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook.

CERTIFICATIONS AND ACHIEVEMENTS

### [The Git & GitHub Bootcamp: The Complete-Practical Guide](https://www.udemy.com/course/git-and-github-a-practical-course-beginner-to-advanced/)**(Udemy)**

* Secured **4 Star** rating on [LeetCode](https://leetcode.com/u/ps3493049/) and **3 Star** rating on [GFG](https://www.geeksforgeeks.org/user/ps349t7fz/)
* Solved 500+ problems on [LeetCode](https://leetcode.com/u/ps3493049/), [GFG](https://www.geeksforgeeks.org/user/ps349t7fz/), [CodingNinjas](https://www.naukri.com/code360/profile/Prarthana_Singh)