

Palak Rathore

palakrathore952@gmail.com | +91-7000260490 | Github:palakrathore9

EDUCATION

LJ UNIVERSITY | BE IN COMPUTER SCIENCE AND ENGINEERING

Undergraduate | Grad. May 2025 | SPI(sem-3) : 8.13

Coursework : DSA, DBMS, Computer Networks, OOPs, C, Python, Java, AI, Full Stack Development

KENDRIYA VIDHYALAYA NO.1 | PCM WITH COMPUTER SCIENCE

Intermediate | Grad. May 2021 | Per : 84.6

ACADEMIC PROJECTS

STUDENT PERFORMANCE PREDICTOR | Video Link | Github

Django, Pandas, Matplotlib, Scikit-learn, Seaborn

- Developed an interactive web application using machine learning and data visualization to predict students' math scores and offer insights from a Kaggle dataset.
- Provided in-depth model performance analysis with RMSE, MSE, MAE, and R2 scores for training and testing data, alongside R2 comparisons for different machine learning models.
- Developed a user-friendly web form for math score predictions using Linear Regression, with meticulous data preprocessing.
- Enabled users to explore the impact of gender, lunch type, test preparation, and parent's education on student performance through informative visualizations.

YOURBOOKS | BOOK RECOMMENDATION SYSTEM | Video Link | Github

Numpy, Pandas, Django, Scikit-learn, Python

- Developed a Django-based web application for book recommendations, combining two distinct recommendation approaches - popularity-based and collaborative filtering.
- Applied machine learning and data science techniques, including matrix factorization and cosine similarity, to offer tailored book suggestions.
- Implemented robust Django authentication to provide users with secure access to the platform, enabling user registration, login, and logout functionalities.

CARA | FASHION E-COMMERCE WEBSITE | Github

React, HTML, CSS, Firebase

- Developed a React-based fashion e-commerce web application with the implementation of reusable React components, using libraries like React-Router, Rc-Slider, react-icons.
- Designed and implemented a robust product filtering system, allowing users to explore a diverse fashion catalog with category-based and price range filtering options.
- Integrated Firebase Authentication for enhanced user security, enabling users to create accounts, log in securely, and manage personalized profiles.

SKILLS

- Frontend Technologies : HTML, CSS, Javascript, Bootstrap
- Backend Technologies : Python, React, Node, Express
- ML Libraries : Numpy, Matplotlib, Pandas, Scikit-learn, Seaborn
- Databases : Django, SQL
- Software : Git, Visual Code

CERTIFICATES

- Coursera : Exploratory Data Analysis for Machine Learning | Link
- Coursera : HTML, CSS, and Javascript for Web Developers | Link
- Coursera : Data Structures | Link