

Shiv Narayan Dwivedi

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SKILLS

- **Languages:** Python, C++, Java
- **Data Science and ML:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch
- **Tools & Deployment:** Git, GitHub, Jupyter Notebook, VS Code, Streamlit
- **BI & Analytics:** Power BI, SQL, Excel
- **Soft Skills:** Problem-Solving Skills, Time Management, Team Collaboration
- **Database:** MongoDB, MySQL

TRAINING

LOVELY PROFESSIONAL UNIVERSITY

Jun' 25 – Jul' 25

Library Book Management System | HTML, CSS, JavaScript, Data Structures & Algorithms

- Developed a fully frontend, menu-driven Library Book Management System to manage book records, user login, and circulation activities.
- Implemented Linked List-based data structures for dynamic book storage supporting efficient CRUD operations (Add, Update, Delete).
- Designed an Issue/Return mechanism using Queue logic, ensuring FIFO-based book circulation workflow.
- Added input validation, record checks, and status-based controls to maintain data accuracy and prevent invalid book transactions.
- Delivered a responsive and interactive interface using HTML, CSS, and JavaScript, demonstrating real-world application of core DSA concepts.

PROJECTS

Mobile Phone Specifications (EDA) | Python, Pandas, Matplotlib, Seaborn

Mar' 25 – May' 25

- Performed comprehensive Exploratory Data Analysis on a Kaggle dataset containing mobile phone specifications across various brands.
- Conducted data cleaning, preprocessing, and feature exploration to study RAM, battery capacity, mobile weight, and launch prices.
- Created visualizations including box/violin plots, scatter plots with regression lines, and brand-wise bar/pie charts to identify trends and distributions.
- Derived key insights on brand-wise feature differences, price variations across regions, and correlation patterns such as battery capacity vs. weight.
- Strengthened analytical skills by uncovering actionable insights and preparing the foundation for future ML-based price prediction and feature-driven dashboards.

House Price Prediction | Python, Machine Learning, Scikit-learn

Sep' 25- Nov' 25

- Developed and evaluated regression models including Linear Regression, Ridge, and Lasso to predict housing prices accurately.
- Performed extensive data preprocessing such as handling missing values, encoding categorical features, scaling, and removing outliers.
- Conducted feature engineering and model refinement using cross-validation and hyperparameter tuning to improve predictive accuracy.
- Strengthened understanding of regression techniques and end-to-end ML pipelines through practical implementation on real-world datasets.

Global COVID-19 Visualization Dashboard | Excel BI Dashboard, PivotTable

Feb' 25 – Apr' 25

- Built an interactive Excel dashboard using PivotTables, PivotCharts, Slicers, and Map Charts to analyze global COVID-19 trends across countries and timelines.
- Automated repetitive tasks through Macros and added Trendlines to study time-series patterns, forecast case movements, and compare regional variations.
- Cleaned, organized, and transformed large datasets to ensure accurate reporting and deliver clear, impactful data storytelling.
- Compared country-wise performance, highlighted critical spikes, and created intuitive visual insights to support better decision-making.

Customer Churn Prediction | Python, Machine Learning, Scikit - learn

Jul' 25 – Oct' 25

- Built a machine learning classification model to predict customer churn using Logistic Regression and Decision Trees, improving retention decision-making.
- Conducted detailed feature importance analysis to identify key drivers of churn such as usage patterns, contract type, and customer support interactions.
- Implemented a complete ML pipeline including data preprocessing, model training, hyperparameter tuning, and performance evaluation.
- Delivered actionable business insights to help organizations reduce churn and improve customer engagement through predictive analytics.

CERTIFICATES

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|--|---------|
| • Responsive Web Design – FreeCodeCamp | Oct' 23 |
| • Introduction to Hardware and Operating System – Coursera | Sep' 24 |
| • Cloud Computing – NPTEL | Nov' 25 |
| • Fundamentals of Data Structures: Learn, Apply and Build Projects | Jul' 25 |
| • Object-Oriented Programming – LPU | Dec' 24 |
| • Data Structures and Algorithm – LPU | Dec' 24 |
| • Fundamental of Network Communication – Coursera | Sep' 24 |
| • Java Programming – LPU | May' 25 |
| • Introduction to Data Science – Cisco Networking Academy | Nov' 25 |

EXTRACURRICULAR ACTIVITY

Community Development Project – NGO

Jun' 24

Collaborated with an NGO to support social welfare initiatives by distributing essential resources and organizing awareness drives for underprivileged communities.

ACHIEVEMENTS

- **Completed 150+ hours of learning in Python, Machine Learning & Data Analytics:**
Demonstrated strong commitment to continuous learning through hands-on practice, model building, and real-world data analysis.
- **Strengthened Data Structures & Algorithms skills through continuous practice and self-learning:**
Built multiple mini-projects using Linked Lists, Queues, and Stacks to improve logic-building and real-world problem-solving ability.
- **Gained proficiency in key Data Science tools (Pandas, Scikit-learn, Matplotlib, Seaborn)**
Built analytical workflows and visualizations, strengthening practical understanding of end-to-end ML pipelines.

EDUCATION

Lovely Professional University

Bachelor of Technology - Computer Science and Engineering; CGPA: 6.9

Phagwara, Punjab

Aug' 23 - Present

School of Excellence Sidhi

Intermediate; Percentage: 81.80

Sidhi, Madhya Pradesh

Jul' 21 – Apr' 22

Govt. Higher Sec School

Matriculation; Percentage: 94.60

Sidhi, Madhya Pradesh

Jul' 19 – Apr' 20