UTKARSH KUMAR AWASTHI

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[Email](#) ⬦ [LinkedIn](#) ⬦ [Github](#) ⬦ [Leetcode](#) ⬦ [Geeks For Geeks](#)

EDUCATION

Bachelor of technology   2021-2025
National Institute Of Technology Karnataka,Surathkal   **CGPA-9.02**

Senior Secondary - S'T Mary's Senior secondary school   **Percentage-95.2**

EXPERIENCE

Machine Learning Intern
Prodigy Infotech   **August 2024 - Present**

- Implemented a linear regression model to predict house prices based on features such as square footage, number of bedrooms, and bathrooms.
- Developed a K-means clustering algorithm to segment retail store customers based on their purchase history, enabling targeted marketing strategies.
- Visualized customer segments with cluster plots and heatmaps, providing insights for marketing strategies.

Research Intern
Civil Department NITK   **August 2023 - November 2023**

- Implemented a machine learning approach by integrating bootstrapping and multilinear regression to estimate stream flow quantiles in non-gauged river systems.
- Conducted multilinear regression to model hydrology, enhancing flow precision in data-scarce regions.
- Applied statistical methods to determine 95% confidence intervals, ensuring a rigorous assessment of model parameter uncertainty.
- Created detailed documentation outlining the methodologies and machine learning workflows used, ensuring seamless knowledge transfer and project continuity.

PROJECTS

Olympics Data Analysis [(Github)](#)

- Developed interactive visualizations for Olympic medal counts and performance trends, enhancing insight clarity.
- Performed data cleaning to remove duplicates and ensure integrity, resulting in accurate statistical analyses.
- Analyzed Olympic performance trends to identify emerging sports and potential future champions.

Bank Loan Analysis Dashboard [(Github)](#)

- Developed a comprehensive Bank Loan Report dashboard using **Power BI**, showcasing key financial metrics and insights for data-driven decision-making.
- Implemented dynamic visualizations to track loan performance and trends, enhancing stakeholder reporting.
- Utilized MS Excel and **SQL** for data extraction, transformation, and validation, ensuring dashboard accuracy.

Credit Risk- Probability of Default [(Github)](#)

- Developed a Credit Risk Probability of Default (PD) Model using **logistic regression** to predict the likelihood of loan defaults, improving risk assessment accuracy.
- Engineered and selected features from raw financial data, enhancing model performance and interpretability.
- Optimized model parameters via grid search and cross-validation, enhancing accuracy and generalizability.

SKILLS

Technical Skills	Python, SQL, Excel, Google Sheets, Matplotlib, Data Structures and Algorithms, Jupyter
Soft Skills	Effective Communication, Team Collaboration, Leadership
Certificates	Coursera : Supervised Machine Learning:Regression and classification
	Simplilearn : Introduction to Data Analytics

ACHIEVEMENTS

- Completed **Data Analytics and Visualization** virtual internship offered by accenture.
- Institute **Rank 3** on Geeks For Geeks with a coding score of **3000+**.
- Contest Rating of **1800+** in **Leetcode**.