KAPIL PUSHKAR



| ACADEMIC QUALIFICATIONS | | | | | |
|-------------------------|--|--|--|------------------|--|
| Year | | Degree /Board | University /Institution | %/CGPA | |
| 2025* | Post G | raduate Diploma in Business Analytics | IIM Calcutta, IIT Kharagpur, ISI Kolkata | - | |
| 2021 | Dual De | gree - B.Tech + M.Tech. Civil Engineering | Indian Institute of Technology, Varanasi | 7.04/10 | |
| 2016 | | CLASS XII | Macro Vision Academy | 82.8 % | |
| 2014 | | CLASS X | Macro Vision Academy | 9.4/10 | |
| KEY SKI | LLS/TOOLS | Machine Learning, Python, Data Analytic | s, Data Visualization, SQL, Power BI, Predictive M | odeling, Excel | |
| NTERN | NSHIPS (2 M | onths) | | | |
| Colliers | International | Project Mgm | it. Intern Gurugram (M | ay '19 - Jun '19 | |
| | oles and oonsibility | ■ Led stakeholder meetings, addressed prog | nedules, and optimized project duration through r gress gaps, and maintained project trackers for e cross multiple contractors which lead to reduce in | ffective plannir | |
| AWARI | OS AND ACH | EVEMENTS | | | |
| Case C | Competition | | 2.0 2023, Business Case Competition organized Fize 5.0'23, Marketing Case Competition organize | - | |
| Awards | | ■ Secured 3rd place in Bridge-it at Technex, the annual techno-management festival of IIT Varanasi 201 | | | |
| Sc | holastic | - · · · · · · · · · · · · · · · · · · · | | | |
| Achi | ■ Awarded cash prize by C.R Employee's Co-operative Credit Society for outstanding performance in | | | | |
| Cer | rtificates | ■ Certified in "Python Data Structures" and | d "Using Python to Access Web Data" from UM | ich via Courser | |
| ACADE | MIC PROJEC | ΓS | | | |
| Predic (Gen | omer Churn ction Model netic Algo) ock price | ■ Implemented Exploratory Data Analysis, Label Encoding; achieved accuracy of 84.2% & F1 Score of 90.35% ■ Model outperformed Logistic Regression, Support vector Machine, Decision Tree, Random Forest & XG ■ Improved accuracy by 2.64% & F1 Score by 2.67% over the best performing model on imbalanced dataset ■ Regressed log of Amazon's stock returns (4 years of data) with CAPM, Fama-French 3 & 5 Factor model | | | |
| | diction gression) | ■ Tested models on 2 months of data , achieving a model with MAE of 0.0075 & Adjusted R² value of 0.51 ■ Verified Heteroscedasticity using Breusch-Pagan test and Autocorrelation using Durbin Watson test | | | |
| | ent Analysis (NLP) | ■ Scrapped over 30K mobile reviews from Flipkart; performed topic modelling & sentiment classificatio ■ Performed tokenization, lemmatization & POS tagging; used LDA; coherence identified 6 optimal topic ■ Trained LSTM using labelled dataset; achieved 90.4%accuracy; got topic & sentiment level for test review | | | |
| De | Lung Cancer etection ssification) | Designed an ensemble CNN model, enhancing diagnosis capabilities & robustness with data augmentation Trained & Integrated EfficientNet-B3, Inception-v3, & ResNet50 using transfer learning for enhancement Achieved 91.25% accuracy, 2.27% over the leading model, with 1.7% in recall & 2.55% in F1 Score | | | |
| Mainte | redictive enance Using AI &ML) | Preprocessed data with SMOTENC used one-hot encoding and standard scaling for robust model training. Reduced dimensions with PCA and applied Gradient seachCV to identify best model based on accuracy. Best model Gradient boosting achieved balanced accuracy of 79.27% and Macro F1 Score of 75.68%. | | | |
| ADDITI | ONAL PROJ | ECTS | | | |
| | Forecasting ne Series) | Analysed ACF & PACF plots for order of SAKIMA model & Liung-box for the residual autocorrelation analys | | | |
| Segr | ustomer nentation ustering) | tation ■ Performed RFM analysis, mitigated outliers and segmented customers into 5 groups using an elbow plo | | | |
| | ortfolio imization | Computed annual portfolio return and risk of 5 stocks (Disney, Microsoft, Amazon, Google, and Walmart Refined portfolio to maximize Sharpe Ratio(1.08) on the efficient frontier, optimized risk-adjusted return Leveraged the pypfopt library to discretely allocate stocks for each asset given certain investment amount | | | |
| Hoalth Caro Analytics | | | Applied K-means and Single-linkage agglomerative clustering techniques to categorize various hospital Leveraged the elbow method to identify the optimal no. of clusters and achieved a silhouette score of 0.5 | | |
| | ONC OF DEC | DONCIDILITY & FYTDA CUDDICULADO | | | |
| POSITIO | ONS OF KES | PONSIBILITY & EXTRA CURRICULARS | | | |
| | sketball | | kout tournament at IIM Calcutta , competing ag | | |

ELECTIVES: FRM, Health Care Analytics, Supply Chain Analytics INTERESTS: Writing, Photography, Gym