## **REESHABH ANAND**

ch (Industrial and Management Engineering)

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ACADEMIC	DETAILS		
YEAR	DEGREE	INSTITUTE	CPI/%
2021-2023	M Tech (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	86
2021 2025	B Tech (Civil Engineering)	Indian Institute of Technology (ISM), Dhanbad	8.12
2014	Class XII (CBSE)	Delhi Public School, Dhanbad	92.33
		,,	%
2012	Class X (CBSE)	Delhi Public School, Dhanbad	10
INTERNSH	P	·	
Data Analy	vst Intern- Axtria	(May	'22 - July'22)
	at Transform Load) for Data Warahousa Lover	(Way	
EIL (Extrac	t Transform Load) for Data Warehouse Layer:	manion objects of Data Warehouse	
• Created L	DL (Data Definition Language) for different type of chiests such	an ension objects of Data Waterlouse.	
• Created 3	ifferent query for DO (Data Quality) Chack	as SCD1, SCD2, incremental load and Full load object	.5.
Created d	interent query for DQ (Data Quality) Check.		
• Also perio	ormed SIT (System Integrated Test) for Staging layer.		
WORK EXP	ERIENCE		
Business A	nalyst - Tredence Analytics Solution Pvt Ltd	(A	ugʻ18-Jan'19)
Wor	ked on <b>MS Excel to</b> maintain weekly, monthly and quar	terly dashboard of client's business model at different	nt levels.
<ul> <li>Prov</li> </ul>	vided <b>reporting, analysis</b> and insights about sales driver	s and key revenue performance metrics to support co	orporate
analytics.			
<ul> <li>Documented husiness process and analysed procedures to align with changing husiness needs</li> </ul>			
Analysed key aspects of business to evaluate factors driving results and summarized into presentations			
• Alla	rysed key aspects of business to evaluate factors driving		
		<b>⊂7</b>	
ACADLIVIIC			
Sentiment	Analysis on IMDB Movie Review (Applied Machine Learn	ning) 🤇 🔪 (Mar'.	22 – Apr'22)
• The IMDB	dataset consists of 50,000 Movie reviews that have bee	en pre-labeled with "good" and "negative" sentiment	class labels
<ul> <li>Classified</li> </ul>	sentiment based on review text, performed pre-process	ing by Stop-word removal, tokenization, Stemming,	
Lemmatiz	ation		
<ul> <li>Executed</li> </ul>	Feature Extraction Techniques – Bag of Words, TF-IDF, N	Nord2Vec.	
• Applied Models – K-Nearest Neighbors, Naïve Bayes, Logistic Regression, Support Vector Machine, Random Forest			
Used Accu	uracy, Precision, Recall and F1-Score as evaluation metr	ics for comparing models	
An Analysis	s of Customer Satisfaction towards JIO Sim-Marketing	g (Marketing Research) (Aug	3′22-Dec′22)
<ul> <li>Conducte</li> </ul>	d a Problem Identification Research to analyze & ident	ify salient features of Customer Satisfaction towards	Network
Provider.			
• Formulate	ed Management Decision & Market Research problems	s, Research Questions and Hypotheses	
<ul> <li>Designed</li> </ul>	a Single cross-sectional descriptive research, dynamic s	urvey form using Scaling techniques	
<ul> <li>Collected</li> </ul>	127 sample data (primary) using online surveys, focus	groups & personal interviews	
• Carried ou	ut <b>Exploratory, Descriptive Research</b> in <b>SPSS</b> on the dat	a (Convenience Random Sampling)	
<ul> <li>Analyzed</li> </ul>	the data using statistical (parametric & non-parametric	) tests ( <b>One /Two Sample t-test, Chi squared test</b> ) to	verify
hypothese	es.		
Designing	bank form in HTML and storing in database (Comput	ter Aided Decision Systems) (Jan'	22 – Mar'22)
Designed	a bank form in <b>HTML</b> and stored the data into <b>MariaDB</b>	database	
• The value	s filled by user were passed to <b>PHP script</b> and through F	PHP the data was stored into database of MariaDB	
Built Entit	ty Relationshin diagram and related schema to display:	and analyse database and represent relationships am	ong various
ontitios un	sod	and analyse database and represent relationships an	
entities u.	seu		
Ontimal Pr	ortfolio Construction (Financial Engineering)		ah'22 _ Anril'22
Collect	ed data for <b>15,NIFTY 50</b> companies working in different	sectors and analysed time series characteristics of b	oth stock
price a	ind its returns .		
Selecte	d 10 stocks for investment from 15 ,based on their Exp	ected Return, Std-Deviation and Correlation Matrix.	
• The mi	nimum variance set, and efficient Portfolio frontier fo	r the Markowitz portfolio was plotted using the Exce	l Solver.

- Final efficient portfolio was selected using the Capital Allocation Line (CML), that maximizes the Sharpe Ratio and using One-Fund Theorem.
- So our final portfolio 57.38 % of our total resource invested in equity and 42.62 % invested in a risk free assets which would ٠ give us an annual expected return of 24.5 % with as risk() of 9.56 % and Sharpe Ratio of 0.13.

SELF PROJECTS			
REAL STATE PRICE PREDICTION PROJECT (Linear Regression)			
<ul> <li>Performed EDA, Data Cleaning, Outlier Detection and Removal, Feature Engineering and Dimensionality Reduction.</li> <li>Used One-Hot Encoding for columns having categorical/text values.</li> <li>Used Gridsearchcv for hyperparameter tunning and K Fold Cross validation.</li> <li>Used different regression model such as Linear, Lasso, Decision Tree regression with Linear Regression giving us highest accuracy i.e., 81.84 %.</li> </ul>			
Air Passenger Forecasting (Time Series Analysis)			
<ul> <li>Predicted Air Passengers travel for next 10 years analyzing previous month wise data from 1949 to 1960 using time series techniques</li> <li>Decomposed Time series into its component to analyze Trend, Seasonality and noise</li> <li>Checked Stationarity using Rolling Statistics test &amp; ADCF-test (Augmented Dickey-Fuller) and stationarised time series by Differencing(d)</li> <li>Plotted PACF (Partial Autocorrelation function) and ACF (Autocorrelation function) to find optimal parameters p, d, q</li> <li>AR, MA and ARIMA time series models applied and RSS used as evaluation metric.</li> <li>Image Classification (CNN)</li> <li>Performed classification of small images on cifar10 dataset from TensorFlow Keras datasets.</li> <li>Loaded the dataset into train and test and converted the 2D array of classes into 1D.</li> <li>Normalized the images to a number from 0 to 1.</li> <li>Build a simple ANN for image classification with sparse categorical cross entropy as loss function and run 5 epochs.</li> <li>Accuracy at the end of 5 epochs is 49%.</li> <li>Build a CNN model and ran it for 15 epochs.</li> </ul>			
<ul> <li>Accuracy at the end of 5 epochs with CNN is 70% and at the end of 15 epochs is 83%.</li> </ul>			
<ul> <li>Dataset is highly imbalance contain 284,807 transactions with 35 features out of 492 are Fraud's</li> <li>Performed Explanatory Data Analysis (EDA), Data Preprocessing and Data visualization, Class imbalanced data handled by SMOTE and used Accuracy, Precision, Recall and F1-Score as metrics to compare model.</li> <li>Applied Logistic Regression, Random Forest and AdaBoost with sampling Best Model are Random Forest.</li> </ul>			
COURSEWORK AND SKILLS			
Academ       Data Mining   Probability & Statistics   Applied Machine Learning   Financial Engineering   Introduction to Computing (Java)   Market Research   Operation Research   Computer Aided decision System   Causal Inference in BA         Courses       Online       Applied Data Science with Python(Applied Plotting, Charting & Data Representation in Python   Introduction to Data Science in Python   Applied Social Network Analysis in Python   Applied Text Mining in Python   Applied Machine			
Learning in Python) Technic Machine Learning   Statistical Analysis   Natural Language Processing   Python (NumPy, Pandas, Scikit-Learn, SciPy,			
al Skills Matplotlib, Seaborn, NLTK, Regex)   MS Excel   SQL   JAVA   Tableau   HTML   PHP			
Instant Stills       Critical Thinking, Problem Solving, Teamwork, Effective Communication, Adaptability			
POSITION OF RESPONSIBILITY			
<ul> <li>Branch Coordinator of Civil Engineering department in CONCETO'16, IIT (ISM) Dhanbad.</li> <li>Teaching Assistant for the course Enterprise Integration with IT, IME Department, IIT Kanpur (Aug'22 - Present)</li> </ul>			
ACHIEVEMENT AND EXTRA CURRICULAR ACTIVITIES			

• Awarded 5-star Gold Badge in SQL under specialized skills at Hacker Rank.

• Secured AIR 606 in GATE 2021 in Civil Engineering branch and AIR 76 in GATE 2021 IN Environmental Engineering branch

• Attended a Workshop on 3D printing titled "Product development and Entrepreneurship" by 3D EDU- Printing Technologies Pvt. Ltd.

• Attended **B-plan workshop**, organized by Genesis, E-cell ISM Dhanbad.