

## ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2020	B.Tech Production and Industrial Engineering	Indian Institute of Technology, Delhi	6.99/10
2016	CLASS XII	Ahlcon International School	93.2 %
2014	CLASS X	Ahlcon International School	9.8/10

**KEY SKILLS/TOOLS** Python, R, NLP, Data Structures, Algorithms, Data Science, Data Visualization, SQL, Power BI, MS Excel

## WORK EXPERIENCE (21 Months )

Anheuser-Busch InBev		Principal Analyst (BI & Reporting)	Bengaluru (Dec '21 - May '22)
Data Extraction & Transformation	<ul style="list-style-type: none"> <li>Extracted data from <b>SAP</b> servers, developed <b>SQL stored procedures</b> to transform it for procurement KPIs.</li> <li>Connected <b>SQL</b> server to <b>Power BI</b>, ensuring real-time data refresh capabilities for accurate KPI tracking.</li> </ul>		
Dashboard Development	<ul style="list-style-type: none"> <li>Collaborated with global category leaders, developed dashboards in <b>Power BI</b> &amp; created the 'Beer Pro' app.</li> <li>Used it for tracking <b>17</b> key procurement related <b>KPIs</b> and facilitated best practice sharing among <b>6</b> zones.</li> </ul>		
KPI Benchmarking	<ul style="list-style-type: none"> <li>Leveraged past data, performed time-series forecasting (<b>SARIMA</b>) to predict future KPI values for all zones.</li> <li>Predictions used as benchmarks by procurement leaders, achieved an average <b>MAPE of 8.9%</b> for all zones.</li> </ul>		
Anheuser-Busch InBev		Principal Analyst (Auctions COE)	Bengaluru (Aug '20 - Dec '21)
Cost Savings	<ul style="list-style-type: none"> <li>Collaborated with key stakeholders, supported <b>19</b> critical procurement projects across diverse categories such as Packaging, Logistics, MRO, and Commodities, resulting in savings of <b>\$24.6 Million</b> for the organisation.</li> </ul>		
Process Improvement & Automation	<ul style="list-style-type: none"> <li>Initiated the '<b>Man vs Machine</b>' project, created dynamic dashboards in <b>Power BI</b> having below capabilities:</li> <li><b>Dynamic scenarios</b> &amp; in-depth <b>bid analysis</b>: visualise changes in allocation; apply discounts, bundle prices.</li> <li>Implemented supplier performance ranking system using Multi-Criteria Decision Making (<b>MCDM</b>) in Python.</li> <li>Reduced time per project (<b>10%</b>↓), achieved cost savings of ~<b>\$1M</b> in FY '22, improved employee <b>well-being</b>.</li> </ul>		
Recognition	<ul style="list-style-type: none"> <li>Received the '<b>Bud-Select</b>' award for the innovative use of <b>macros</b> in a key Europe MRO procurement project.</li> </ul>		

## AWARDS AND ACHIEVEMENTS

Scholastic Achievements	<ul style="list-style-type: none"> <li><b>Ranked</b> in the <b>Top 20 percentile</b> for academic performance out of 62 students, 9th Batch of PGDBA 23 - 25.</li> <li>Secured <b>AIR 2179 - JEE Advanced 2016</b> and <b>99.41 percentile</b> (out of <b>12L+ students</b>) in <b>JEE Mains 2016</b>.</li> </ul>
Case Competitions	<ul style="list-style-type: none"> <li>Secured <b>1st position</b>/823 teams in MIND WIZZ - <b>Analytics</b> based Case Competition held by IIM Udaipur.</li> <li>National Finalists (<b>Top 10</b>/424 teams) in <b>Analytics</b> case competition held by MU School of Business.</li> </ul>

## ACADEMIC PROJECTS

Automatic Music Transcription (Generative AI)	<ul style="list-style-type: none"> <li>Generated guitar tablature from <b>mono - audio</b> files by developing an <b>RNN-based encoder-decoder</b> model.</li> <li>Extracted frequency, intensity values from audio files to be used as inputs for predicting guitar string values.</li> <li>Developed a <b>greedy</b> algorithm to match frequency &amp; string values; achieved an acc of <b>0.82</b>, mac - f1 of <b>0.49</b>.</li> </ul>
Fake News detection (Classification)	<ul style="list-style-type: none"> <li>Predicted fake news on Twitter by formulating the tweet sharing structure as a <b>Graph Neural Net Problem</b>.</li> <li>Applied GNN based techniques such as <b>GCN, GAT</b> to train <b>BERT</b> + profile model embeddings for news nodes.</li> <li>Passed the embeddings through a <b>sigmoid</b> layer, achieved an accuracy of <b>0.86(4%↑)</b> and F1 of <b>0.86 (4%↑)</b>.</li> </ul>
Retinal Disease Classification (CNN)	<ul style="list-style-type: none"> <li>Identified retinal diseases AMD, DME &amp; CNV by developing a classification model using <b>80K+</b> OCT images.</li> <li>Fine-tuned <b>EfficientNet_V2_m</b> model and achieved <b>0.997</b> accuracy (<b>0.5%↑</b>) &amp; <b>0.993</b> macro-avg F1 score.</li> </ul>
Old Car price prediction (Regression)	<ul style="list-style-type: none"> <li>Predicted price of pre-owned cars, performed EDA, plotted the data to study the features &amp; identify outliers.</li> <li>Used OHE, correlation analysis &amp; box-cox transform   Used <b>VIF</b> to check multicollinearity &amp; feature selection.</li> <li>Explored linear models (<b>MLR, RIDGE &amp; LASSO</b>), tree-based models (<b>RF &amp; XGB</b>) achieved <b>R2 score - 0.88</b>.</li> </ul>
Sales Forecasting (Time Series)	<ul style="list-style-type: none"> <li>Forecasted monthly sales of electronics for a period of <b>30</b> months from past <b>36</b> years data using <b>SARIMA</b>.</li> <li>Used <b>ADF</b> test for Stationarity, <b>log transformed</b> for heteroscedasticity &amp; fixed AR/MA orders by <b>ACF/PACF</b>.</li> <li>Used <b>AIC, BIC</b> for best model selection, verified residuals using <b>Ljung-Box</b> test, achieved a <b>MAPE of 4.33%</b>.</li> </ul>

## ADDITIONAL PROJECTS

News Article Classification (NLP)	<ul style="list-style-type: none"> <li>Built a model to classify news articles into <b>4</b> categories (World, Sports, Business, Science) using <b>2.5K</b> articles.</li> <li>Leveraged <b>Word2Vec</b> embeddings, trained an artificial neural network, achieved a <b>macro F1-score</b> of <b>0.45</b>.</li> <li>Applied <b>bidirec. RNN, LSTM</b> (macro F1-score: <b>0.69</b>), attained the highest macro F1-score of <b>0.90</b> with <b>BERT</b>.</li> </ul>
Portfolio Formulation	<ul style="list-style-type: none"> <li>Constructed a diversified portfolio of US stocks in <b>S&amp;P 500</b> for high, medium and low risk-return customers.</li> <li>Applied <b>Kmeans &amp; DBSCAN</b> clustering, used <b>Elbow Method</b> for KMeans, achieved a <b>Silhouette</b> score of <b>0.73</b>.</li> </ul>

## POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

Debut Original	Released <b>original</b> song ' <b>Subah</b> ' on major online platforms, received <b>150K+</b> hits on YT in the first 6 months.
Inter IIT	<b>Inter IIT Cultural Meet '17</b> at IITK: <b>Won</b> the overall championship as a part of the IITD contingent (2017).

**ELECTIVES** : Econometrics, Game Theory, NLP, Comp. Finance

**INTERESTS** : Music, Chess, SpeedCubing

