

# PREMJEEET CHAUBEY



## ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2020	B.Tech Metallurgical and Materials Engineering	National Institute Of Technology, Durgapur	8.34/10
2016	CLASS XII	Aditya Birla Intermediate College	92.4 %
2014	CLASS X	Aditya Birla Intermediate College	85 %

**KEY SKILLS/TOOLS** Machine Learning, Statistical Inference, Time Series Analysis, Dashboarding, SQL, Python, Tableau

## AWARDS AND ACHIEVEMENTS

Scholastic Achievements	<ul style="list-style-type: none"><li>Secured a position in <b>Top-20 percentile</b> of class among 62 students of the <b>9th Batch of PGDBA 2023 – 2025</b></li><li>Awarded <b>Gold medal</b> in <b>state level</b> inter school environmental quiz and received prize money of <b>INR 25000</b></li><li><b>3rd</b> rank in the Sonbhadra district(U.P) in <b>12<sup>th</sup> board</b>, 2016   Earned <b>gold</b> badge in <b>SQL</b> script on Hackerrank</li></ul>
Case Competitions	<ul style="list-style-type: none"><li>Ranked <b>(1/385)</b> in Unravel 4.0, <b>budget-based sales prediction</b> competition, worth ₹ 30k by IIM Sambalpur</li><li>Finished <b>4th</b> in Flipkart Product launch challenge, 23  Ranked <b>9/940</b> in <b>IDB Analytics3.0</b> organized by IIMC</li></ul>

## WORK EXPERIENCE (32 Months )

Numerator	Data Science Analyst	Vadodara, Gujrat (Jan '23 - Jul '23)
Dashboards & Visualizations	<ul style="list-style-type: none"><li>Created <b>data quality tracker dashboard (Tableau)</b> for faster decisions for senior mgmt &amp; leadership team</li><li>Created <b>data Visualization reports</b>, enabling senior mgmt of DS team to track <b>product hierarchy</b> changes</li><li>Updated the <b>SQL script</b> of <b>data visualization reports</b> to track the <b>KPIs</b> of app's <b>AMU</b> &amp; online product data</li></ul>	
Data Analysis	<ul style="list-style-type: none"><li>Resolved multiple production <b>data processing issues</b> &amp; enhanced <b>data quality and assurance</b> for 7 clients</li><li>Coordinated with product team to <b>validate new feature</b>, checking feasibility of new ideas &amp; <b>retrieving KPIs</b></li></ul>	
ZestMoney	Analyst - FIU	Bangalore (Sep '20 - Jan '23)
Fraud Investigation	<ul style="list-style-type: none"><li>Identified <b>fraud patterns</b> and coordinated with product team to improve fraud resilience of the loan product</li><li><b>Investigated 500+</b> fraud cases &amp; saved ₹ <b>1Mn</b> of false claims and helped customers to get a refund of ₹ <b>4Mn</b></li><li><b>Uncovered</b> a fraud of a total ₹ <b>10,00,000</b> in the <b>unsecured loan</b> segment for Electric Vehicles and Batteries</li></ul>	
Leadership & Stakeholder Management	<ul style="list-style-type: none"><li><b>Spearheaded</b> a team of <b>5</b> to complete investigation of <b>600 fraud cases</b> in a month to meet regulatory norms</li><li><b>Supervised</b> team of <b>9</b> to reduce average Turn Around Time(TAT) on credit limit and loan applications by <b>8%</b></li><li><b>Coordinated</b> with different stakeholders like regulators - <b>RBI, Cyber crime department</b> and internal teams</li></ul>	

## ACADEMIC PROJECTS

Pre-owned car price prediction (Regression)	<ul style="list-style-type: none"><li>Predicted price of pre-owned cars  performed Exploratory Data analysis(EDA) to study features and <b>outliers</b></li><li>Performed <b>One Hot Encoding, box-cox transforms</b> for skewness and handled <b>multicollinearity</b> using <b>VIF</b></li><li>Implemented <b>MLR</b> &amp; selected features with backward elimination; explored regularizations (<b>Ridge &amp; Lasso</b>)</li><li>Validated model using <b>error analysis</b>  explored tree-based models(<b>RF &amp; XGB</b>) &amp; achieved best <b>R<sup>2</sup> 0.88 -XGB</b></li></ul>
RTO order classification	<ul style="list-style-type: none"><li>Built a model to classify <b>e-commerce orders</b> with <b>high return chances</b> and enhanced unit-level economics</li><li>Performed <b>EDA</b> to extract insights and done <b>feature engineering</b> to transform the raw data to model inputs</li><li>Used <b>Decision Tree, Adaboost,XGBoost, Random Forest</b> models &amp; achieved <b>0.81 Recall</b> of return class(<b>RF</b>)</li></ul>
Forecasting IIP (Time Series)	<ul style="list-style-type: none"><li>Forecasted <b>IIP</b> of Primary goods (Minerals, Fuels and electricity) by analyzing last <b>11 years</b> of monthly data</li><li>Checked stationarity(<b>ADF test</b>), <b>ACF, PACF</b> plots for <b>SARIMA</b> order, used grid search to get best model (<b>AIC</b>)</li><li><b>Forecasted</b> with the <b>SARIMA</b> model to get <b>MAPE</b> of <b>2.897%</b> and used <b>Ljung-Box</b> test for <b>residual analysis</b></li></ul>
Sentiment Analysis of financial news (NLP)	<ul style="list-style-type: none"><li>Proposed models to recognize the <b>sentiment</b> of 5000 annotated <b>financial texts</b>; performed <b>EDA</b> on the data</li><li>Performed cleaning, <b>tokenization, lemmatization</b> &amp; explored <b>BiRNN, BiLSTM</b> with <b>word2vec</b> embeddings</li><li>Implemented <b>BERT</b> &amp; achieved best overall <b>accuracy</b> of <b>86%</b> ( <b>27%</b> up), weighted average <b>F1 score</b> of <b>0.84</b></li></ul>
Portfolio Optimization	<ul style="list-style-type: none"><li>Utilized <b>MPT</b> on <b>5</b> Indian stocks; taking data from <b>Yahoo Finance</b> &amp; generated the <b>Efficient Frontier Curve</b></li><li>Optimized the portfolios to achieve a <b>maximum Sharpe Ratio</b> of <b>1.07</b> and a <b>minimum volatility</b> of <b>8.34%</b></li></ul>

## ADDITIONAL PROJECTS

Recommender System	<ul style="list-style-type: none"><li>Modelled a <b>recommendation system</b> of movies using the <b>MovieLens</b> dataset to predict <b>top 5 suggestions</b></li><li>Implemented <b>Collaborative Filtering</b> and utilized <b>Cosine Similarity</b> score for identifying recommendations</li></ul>
Image Captioning (Deep Learning )	<ul style="list-style-type: none"><li>Generated textual <b>captions</b> for <b>6.7k</b> images using pre-trained <b>VGG Net</b> as encoder and <b>LSTM</b> based <b>decoder</b></li><li>Explored &amp; Fine Tuned with <b>Vision Transformers (ViT-base16)</b> as encoder   Improved <b>SPICE score (16% ↑)</b></li></ul>

## POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

PGDBA Conclave	<ul style="list-style-type: none"><li><b>Designed &amp; executed creative event</b> concepts, <b>managed logistics</b> for analytics competition &amp; talk sessions</li><li>Developed <b>schedules &amp; timelines</b>, ensuring seamless coordination and <b>timely execution</b> of event strategies</li></ul>
Analytics Club(IIMC)	<ul style="list-style-type: none"><li>Prepared a <b>short quiz</b> about <b>India-Canada Relationship</b> to increase audience <b>engagement</b> on social media</li></ul>

**ELECTIVES** : Deep Learning, FRM, Econometrics

**INTERESTS** : CHESS