

ACADEMIC QUALIFICATIONS

Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2020	B.Tech Polymer Science and Engineering	DEPT OF POLYMER SCIENCE AND RUBBER TECHNOLOGY	7.046/10
2015	CLASS XII	REC GHSS CHATHAMANGALAM	85.42 %
2013	CLASS X	REC GVHSS CHATHAMANGALAM	80.77 %

KEY SKILLS/TOOLS Requirement Gathering, Stakeholder Management, SQL, Python, Office 365, Six Sigma, Figma, Canva

WORK EXPERIENCE (30 Months)

ISPG TECHNOLOGIES INDIA PVT. LTD.		BUSINESS ANALYST	KOCHI, KERALA (Jan '22 - May '23)
Responsibilities	<ul style="list-style-type: none"> Orchestrated B2B Solutions: Streamlined complex product requirements & harnessed industry insights. Documentation & Proposal: Managed solution integration, oversaw document process & project proposal 		
Product Development	<ul style="list-style-type: none"> Collaborated in 12-member cross - functional team, pivotal in development of \$80K product using agile. Facilitated customer demos, translated feedback into enhancements and increased overall product value 		
Deliverables	<ul style="list-style-type: none"> Engineered proposals, highlighted unique selling points, led to a 60% rise in overall customer engagement. Enhanced client experience via improved interactions, documented workflow & devised service catalogue. 		
Recognition	<ul style="list-style-type: none"> Gained endorsement for innovative solutions & prompt responses, leading to 50% client satisfaction boost. 		
APOTEC SPECIALITY MATERIALS		R&D ENGINEER	MANJERI, KERALA (Dec '20 - Dec '21)
Responsibilities	<ul style="list-style-type: none"> Engineered PU and acrylic emulsion-based waterproofing product, implementing rigorous ASTM - testing. 		
Product Refinement	<ul style="list-style-type: none"> Augmented product's mechanical, physical properties by 12%, boosting performance & competitiveness. 		
Innovation	<ul style="list-style-type: none"> Steered towards sustainable solvent to enhance stone products' resilience, aligning with market demands. 		

ACADEMIC PROJECTS

Medical Text Classification (NLP, SVM)	<ul style="list-style-type: none"> Performed NER on cleaned text data and leveraged identified entities by applying TF - IDF vectorization. Addressed class imbalance in the data by utilizing the SMOTE technique, following the application of PCA. Deployed Classification algorithms - LR + regularisation, Random forest, AdaBoost, SVM + Grid Search. Achieved f1_score of 0.64, accuracy of 0.65 for SVM with RBF kernel (investigated drop in some classes).
Asset Pricing (Regression)	<ul style="list-style-type: none"> Regressed log returns of Amazon's stock using CAPM, Fama-French 3 & 5 factor model over 4 year period. Validated the models on a 2-month dataset, achieving an MAE of 0.0075 and an Adjusted R² value of 0.519 Conducted Breusch-Pagan test to verify Heteroscedasticity & Durbin - Watson test for Autocorrelation.
Retail Store Sales (Time-Series)	<ul style="list-style-type: none"> Performed Box-Cox transformation (λ 0.33, MLE) to tackle heteroscedasticity & normalize the data. Conducted ADF test for validating Stationarity, examined ACF and PACF plots to identify candidate models. Fitted SARIMA and Holt - Winters models with hyperparameter tuning through grid search using MAPE. Determined the optimal model to be SARIMA with a MAPE score of 24.70% and an AIC score of 982.795.

ADDITIONAL PROJECTS

POS -Tagging (NLP)	<ul style="list-style-type: none"> Converted a dataset of 2000 sentences into a dataframe by calculating transition & emission probabilities. Developed Viterbi algorithm in Python from scratch for applying a Hidden Markov Model to predict tags. Predicted word tags in the 100-sentence test dataset with an accuracy of 71 % using Add-One Smoothing.
Customer Life Time (K-Means)	<ul style="list-style-type: none"> Computed RFM metrics using data from online shoppers & segmented users by conventional framework. Predicted Customer Lifetime Value based on RFM metrics using BG/NBD and Gamma - Gamma models. Discerned cluster count leveraging elbow method, performed K-means, achieved Silhouette score of 0.67.
Customer Engagement (Random Forest)	<ul style="list-style-type: none"> Preprocessed data existing in different tables to Engineer columns related to consumer response to offers. Sanitized the data by eliminating NULL values when necessary & implemented Random Forest Classifier. Performed Hyperparameter tuning on depth, bootstrap and max_features, yielding an accuracy of 92.3%.

AWARDS AND ACHIEVEMENTS

Start-Up India	<ul style="list-style-type: none"> Start-Up India Recognition, awarded by the Govt. of India, for innovative K-12 educational drop service.
IBM	<ul style="list-style-type: none"> IBM Product Manager Professional Certificate Statistics for Data Science with Python - IBM.
Google	<ul style="list-style-type: none"> Google Advanced Data Analytics Professional Certificate Foundations of Project Management - Google.
Six Sigma	<ul style="list-style-type: none"> Six Sigma Principles Six Sigma Tools for Define and Measure - by University System of Georgia.

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

PGDBA Conclave	<ul style="list-style-type: none"> Spearheaded Trilytics'24 design, collaborating with teams on creatives, social media posts, and branding.
Alumni Advisor	<ul style="list-style-type: none"> Elected as Alumni Advisor of Sarotsav 2023, an event of Cochin University, secured budget of 12 Lakhs Rs.
Musical Instrument	<ul style="list-style-type: none"> Secured 2nd in Instrumental Non-Percussion Wind Western - 2018 & '19 - Cochin University - Annual Arts.

ELECTIVES : NLP, Pricing & Revenue Optimization

INTERESTS : Music, Guitar, Camera