## **RAGHAVENDRAP**



ACADEMI	IC QUALIFI	CATIONS		
Year		Degree /Board	University /Institution	%/CGPA
2025*	Post Gi	raduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2018	B.E. Elec	ctronics & Communication Engineering	NMIT Bangalore	8.1/10
2014		CLASS XII	Alva's PU college	89.83 %
2012		CLASS X	Duddupudi E.M. High School	91.04 %
KEY SKILL	S/TOOLS	Critical Thinking, Problem Solving, Team	Player, Python, Algorithms, Regular Expression	ns, SQL
WORK EX	KPERIENCE	(54 Months)		
ermat Ed	ucation	Sr. Associate-Auton	nation Engineer Chennai	(Jan '20 - Jun '2:
Process Automation		<ul> <li>Web-scrapped data and created interactive and data rich dashboards for students, teachers and principal from scratch using native web technologies for company's K-12 product PiVerb. Descriptive reports based of performance, time spent on diagnostic tests were created automatically &amp; shared over mail through API calls.</li> <li>Automated the process of creating student specific time tables, preparation schedules and downloadable calendars, based on strengths and weaknesses. Integrated the feature on the website for easy student access.</li> <li>Built server-side scripts to monitor and document course purchases. Integrated WhatsApp API to enable</li> </ul>		
Pipeline I	Monitoring	notifications on successful purchase to users	and send <b>Slack notifications</b> on failed attempts content team in cutting, merging and pre-prod	to the sales team
Productivity Tools		<ul> <li>Created a CAT Score Calculator App, which was extensively used by students to calculate scores from their response sheets. Performance reports were generated and question level summary statistics were published.</li> <li>Created interactive tools for visual learning. Automated the process of shipping study materials to the students - Shipping label generation and sending updates and tracking details on WhatsApp were automated.</li> </ul>		
	ojects & pact	This cut down the manual HTML page creat ■ Worked with <b>YouTube API</b> to update descri	reating HTML pages by extracting content from ion time from more than three months to a criptions en-masse, monitor comments and coll seamless tracking and monitoring of a very large	<b>ouple of minute</b> ect view statistic
Wipro Tec	hnologies Lt	d. Project En	gineer Chennai (	Dec '18 - Nov '1
Support	Engineer	■ Worked with the onsite team to provide tec	hnical assistance in the day to day activities of a	Telecom client.
AWARDS	AND ACHI	EVEMENTS		
CATI	Topper	■ Secured 99.97%ile in CAT 2023, (3.28 la)	kh aspirants, secured ~73rd rank ) and 99.35	%ile in CAT'21.
ACADEMI	IC PROJECT	'S		
Used C Pred	ar Price liction ession)	■ Employed multiple linear regression (MLR) model to analyze 1500+ data points & predict price of used car ■ Validated model assumptions  Tackled multicollinearity using VIF, PCR & L1/L2 regularization technique ■ Addressed high influential and leverage points  Improved adjusted R² from 0.604 (baseline MLR) to 0.77		
Forecasting		Forecasted Power demand of Northern Haryana using time series methods after ADF & ACF/PACF analysis. Tried out different SARIMA models and picked one with the least AIC score achieving MAPE of 3.83% an .73% on log transformed and original data respectively. Verified the model by performing Residual analysis.		
Song Recommender System (GNN)		■ Built <b>graph-based</b> song recommender system on Spotify data of 1 million playlists, 2 million unique track ■ Implemented <b>GCN, GraphSage &amp; GAT</b> for link prediction task, achieved <b>BPR</b> loss of 0.15, <b>Recall</b> @ 300 of 0.		
Need Extraction (NLP)		■ Built CNN based text classifier on Amazon Review Data to filter relevant reviews for understanding need of customers. Achieved F1 score of 0.69, Precision of 0.785. Word embeddings were trained using skipgram Used Ward's method to cluster similar sentences (topic modelling) to identify sparsely reviewed needs		
ADDITIO	NAL PROJE	CTS		
	omer entation		ling patterns for targeted marketing; used PCA Silhouette score $(0.4)$ , Davies Bouldin Index	_
Image Classification (CNN)		■ Developed an ASL <b>image classifier</b> to identify 36 hand signs from <b>2.5K+ images</b> using <b>Transfer Learn</b> ■ Employed <b>ResNet50</b> and <b>InceptionV3</b> , achieved <b>95.7% accuracy</b> with ResNet50 after <b>Data Augmentation</b>		
Topic Classification (NLP)		<ul> <li>Built a model to classify news articles into 4 categories (world, sports, business, science) using 2.5K article</li> <li>Leveraged Word2Vec embeddings, trained an artificial neural network to achieve a macro F1-score of 0.4</li> <li>Applied bidirect. RNN, LSTM [macro F1-score: 0.67]; attained the highest macro F1-score of 0.90 with BER</li> </ul>		
Dynamic Portfolio Rebalancing		<ul> <li>Checked for log normality of return by KS test and chose the myopic portfolio using the Markowitz meth</li> <li>Found the efficient frontier and selected 'n' optimal portfolios and their corresponding Log return parame</li> <li>Applied dynamic rebalancing, assuming transition probabilities to be constant based on Bellman equat</li> <li>Maximized the probability of obtaining the wealth goal of an investor at the end of the investment horiz</li> <li>LP, Games &amp; Information, Bayesian</li> <li>INTERESTS: Cycling, Puzzle Solving.</li> </ul>		g return paramet