SHIVAM SAINI

🛛 +91 8449979988 | 🖂 shivams21@iitk.ac.in | in shivamsaini | 🗘 shivamsaini

EDUCATION									
Degree			Institute / Board	CGPA / Percentage	Year				
	ustr	rial and Management Engineering)	IIT Kanpur	10/10 *	2021-23 (Expected)				
		nical Engineering)	NIT Jalandhar	8.99/10	2016-20				
Senior Secor			CBSE (AISSCE)	96.6%	2016				
Secondary	Taan	7	CBSE (AISSE)	9.4/10	2014				
•	1.0.1	EXPERIENCE		511/20	2011				
			cionco Intorn						
Mphasis Next Labs Data Science Intern Deciset 1. Dertfolie Ontimination by using Deinforcement Learning http://doi.org/10.1016/j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.									
-	r	olio Optimization by using Reinforcement Learning			June'22-July'22				
Objective	•	······································							
 Approach Extracted data from real-time APIs, performed data pre-processing steps like filling of missing value, d Defined the grant behaviour and granted the grant financial equipament using one of the grant behaviour and granted the granted the grant behaviour and granted the granted the grant behaviour and grant behaviour and granted the grant behaviour and grant behaviour and grant behaviour and granted the grant behaviour and grant behaviour and granted the grant behaviour and grant behaviour and grant behaviour and granted the grant behaviour and grant behaviour and grant behaviour and grant behaviour a									
	•								
Result	•	Used DDPG (Deep Deterministic Policy Gradient) algorithm to learn the policy function by training the actor-critic CNN .							
		Marketplace Solution	during training of D	oon Noural Notworks	July'22				
Objective Approach	To solve the problem of lack of training image dataset during training of Deep Neural Networks.								
Αρρισαειί		 Used Keras and OpenCV library to generate the new dataset containing the augmented images. Local testing of the model in postman followed by containerization using Decker and deployment on AWS concernsion. 							
Result	Local testing of the model in postman , followed by containerization using Docker , and deployment on AWS sagemak The module is deployed on AWS marketplace named as Image Data Augmentation								
Objective		 The module is deployed on AWS marketplace named as Image Data Augmentation. To develop the ML-based solution which detects and shows the barcode position in the image data. 							
Approach	•	Used pyzbar library to decode the position and informa		-					
npproden	•	Local testing of the model in postman , followed by con			on AWS sagemaker.				
Result	•	The module is deployed on AWS marketplace named a							
L&T ECC			te Engineer Trainee		Aug'20-Jul'21				
Project- Mu	mba	ai Metro UGC-01			5				
Challenges	•	To facilitate the daily progress reporting in an easy-to-	-use format by site er	ngineers.					
Initiatives	•	Developed a semi-automated system of reporting daily	y work by using the g	google form and sheet.					
Duties	•	Preparation of 3 weeks plan and monthly plan, materi	ial acquisition as per	requirement from site,	subcontractor billing.				
Hero Moto	Corp	Opera	ations Intern		Jun'19-Jul'19				
Project- Imp	rov	ement in SPD (Spare Parts Division) service ratio.							
Objective	•	• To improve the lot size and lead time adherence by finding bottlenecks and constraints in the existing system.							
Approach	٠	• Understanding the basic plant layout and existing system, collecting data by interacting with the different shop floors.							
	٠	Applied Fish Bone analysis and Why-Why analysis on 4							
Result	eveloped reorder level	inventory model for							
		packaging material which led to a possible reduction of	cycle time by 15 %.						
ACADEMIC									
	sis U	Ising Multivariate Regression Statistical Modelling for B		<u>()</u>	Aug'21-Sep'21				
Objective	•	To analyze the parameters which drive the sales predo							
Approach	٠	Performed EDA, feature engineering, calculated correla		ales predominantly.					
	•	Used residual graph to find heteroscedasticity and use	•		_				
Pocult		 Used VIF (Variance Inflation Factor) to check multicollinearity and looked for omitted variable bias. Finalized best multivariate linear regression model with R² score of 0.72 by using feature elimination based on p-value, 							
Result	•	and concluded that the variation of the sales can be be							
Murder Rate	ÞΔn	nalysis on Panel Data Statistical Modelling for Business		r and type of the Outle	Sep'21-Nov'21				
Objective	•	To analyze the effect of execution on murder rate and		bolish it or not as a pur	•				
Approach	•	Performed EDA, data preprocessing on a dataset comp		· · · · ·					
	•	Performed pooled regression, regression with entity , a		· · · ·					
Result	٠	Obtained R² score of 0.935 for panel data regression							
		executions have a deterrent effect on the number of m	-						
Amazon Rev	view	s Classification (NLP) Applied Machine Learning			Feb'22-Apr'22				
Objective	•	To classify the customer review as positive or negative	by using product fea	atures and text reviews	provided.				
Approach	•	Performed Data cleaning and preprocessing by stop-we			emmatization.				
• Performed feature extraction from text by using BOW (Bag of words), TF-IDF , and Word2Vec .									
Built ML models i.e., Naive Bayes, KNN, Logistic Regression, SVM, and Random Forest with hyperparame									
	•								
Desult	•	Used dropout on the hidden layer to avoid overfitting							
Result	•	Used specificity (True Negative Rate) as evaluation mat							
Ontime! Der	•	Used specificity as evaluation matrix and achieved 79.5	>7 % with the Logisti	c Regression model.	14 /22 4 /22				
	+f~!								
Objective	tfol	io Construction Financial Engineering To build the Markowitz portfolio by using historical da		anios	Mar'22-Apr'22				

Approach		Ev+-	racted the data of stock price from 1 st Jan 2017 to 1 st March 2022 using yahoo finance python API.				
Арргоист	•						
	•		ulated the expected return , and volatility , selected the 10 companies based on correlation matri	-			
D //	•		ted the parabolic efficient frontier by running simulations, and allocated funds in a risk-free asset				
Result	<u> </u>		ieved expected return of 26.8% with a risk of 15.86% and Sharpe ratio of 1.3114 for finally selected				
Low Marke	t Pen	etrat	ion Analyses of WhatsApp Pay in India Marketing Research	Feb'22-Apr'22			
Objective	•	То а	nalyze the reason behind the poor market penetration of WhatsApp pay in India compared to ot	her UPI pay.			
Approach	•		nulated Management Decision and Market Research problems, Research Questions, and hypothe				
	•	Desi	igned questionnaire for online survey form using Likert Scaling techniques, collected 150+ sample	responses.			
	•	Ana	lyzed the data using a statistical test (One sample t-test) in SPSS software to verify the hypotheses	•			
Result	•	Incl	usion of new features like recharge, ticket booking, and improving UI can help to increase the cust	tomer base.			
PPOC Summ	ner C	amp,	ІІТК	May'22-Jul'22			
Project-Mo	dellir	ng and	d Forecasting Exchange Rate				
Objective	•	To f	orecast the Exchange Rate of China currency (Yuan) by using historical data of 268 months (1991 t	:o 2014).			
Approach	•	CF and PACF plots.					
	•	Use	d different time series models - AR, MA, ARMA , and ARIMA to predict the exchange rate.				
Result	•	Prec	dicted Exchange Rate for next 67 months (2014-2019) based on best-tuned model ARIMA (1,1,1) v	with RMSE 0.36.			
SKILLS, COU	JRSE	WOR	(AND CERTIFICATIONS				
Technical S	kills		Python DSA(Basics) SQL(MySQL) SPSS Lingo MS-Excel ML Libraries: NumPy, Pandas, Ma	atplotlib, sklearn,			
			statsmodels DL (Deep Learning) Libraries (Beginner): Keras, TensorFlow, OpenCV, Pytorch				
Non-Technical Skills		kills	Analytical Thinking Problem Solving Strategic Thinking Decision Making Adaptability Tea	am Management			
			Communication Skills Interpersonal Skills Leadership Team Work Initiative Taking Skill				
Academic Courses		es	Data Mining & Knowledge Discovery* Applied Machine Learning Statistical Modelling for Business Analytics				
			Probability & Statistics Introduction to Computing Marketing Research Financial Engineering	g Operations			
			Research for Management				
Online Certifications			SQL Masterclass Time Series Analysis using Python Power BI: Zero to Hero Python for Finan				
			Fundamentals Deep Learning with Python Convolutional Neural Networks Excel Skills for Bu	usiness			
POSITION C)F RE	SPON	SIBILITY				
Departmen	t Pla	ceme	nt Coordinator, SPO IITK [*]	May'22-Present			
	-	-	artmental representative of SPO, IIT Kanpur to assist in the successful conduction of placement dri	ve.			
PG Senator	Mar'22-Present						
•			ringing issues faced by 500+ PG students to the students' Senate.				
 Coordinated with Hall authorities and COSHA for the allotment of hostel room to the PG students. 							
Junior Placement Coordinator, IME IITK Jul'21-May							
			access rate in the Summer Internship Drive 2021-22 for all 21 students of M.Tech IME Y21 Batch.				
			of various career paths; Initiated Industry collaborations for long-term projects to augment studer	nts' learnings.			
		•	ment as a brand on LinkedIn; Conducted Alumni guest lectures on the latest Industry practices.				
-			NIT Jalandhar	Apr'19-May'20			
			• members which was responsible for online publicity, visiting other campuses to publicize the even provide NUT laboration.				
			bowars NIT Jalandhar inducted robotics event involving 100+ participants in the technical fest of college i.e. TechNiti'19.	Oct'19-Nov'19			
			AND ACHIEVEMENTS				
			e Certificate, M.Tech IME IITK.				
			ntile in Mechanical Engineering paper in GATE-21. Mechanical Department in under-graduation				
			by CBSE for performance in 12th standard.				
			enture camp-2013 hosted by Nehru Yuva Kendra.				
			n in Mathematics Fest -2012, organized by S.F. DAV Public School, Muzaffarnagar for a working mo	dol			
	.st pt	JUDI	The manemanes restrate, organized by S.F. DAV Public School, Muzanamagar 10f a WORKINg MO	uci.			

*Ongoing