AKASH SONOWAL

+91 8812054820 | Akash20@iitk.ac.in | Akashsonowal | Akashsonowal

EDUCATION							
EDUCATION				1 , /-	1		
Degree			Institute / Board	CGPA / Percentage	Year		
MTech (Industrial and Management Engineering)			IIT Kanpur	8.77/10 (Until Sem 2)	2020-22 (Expected)		
BTech (Chen	nical E	ngineering)	IIT Guwahati	7.33/10	2016-20		
Senior Secondary			CBSE (AISSCE)	87%	2015		
Secondary			CBSE (AISSE)	9.4/10	2013		
PROFESSION	NAL EX	(PERIENCE					
Technocolal	os Soft	twares Pvt. Ltd. Machine I	Learning Engineer Intern		June'21-July'21		
Objective	•	build a real time stock price prediction system pipeline using news headlines and historical prices					
Approach		Pulled data from real time stock price and stock nev					
	•	Performed price data normalization, featurization (news: sentiment, subjectivity and price: technical indicators), news **The property of the property o					
		text n-gram, word count, news length analysis and stationarity, trend, seasonality analysis for price data					
	 Used pre-trained BERT (base-uncased) model on news text to get embeddings (768 dim) which are used as features to a final LSTM model (single-step forecast) trained based on 10 days history data of stock prices and news headlines 						
Result	•	Achieved train loss of 0.0017 and test loss of 0.001	9; Deployed a ML pipelir	ne to prototype an MVP s	cale web app		
Harvesting I	ndia P		Science Intern		May'21-July'21		
Objective	•	To recommend crops to buyers based on their purc					
Approach	•	Performed EDA; Applied popularity and collaboration		ls to user-item data			
Result	•	Achieved 5-Fold RMSE of 1.39 with SVD model in co	ollaborative filtering				
nCampus P	vt. Ltd	l. Business Dev	elopment Manager Inte	rn	June'20-July'20		
Objective	•	To facilitate the market growth of the company in t	he education segment				
Approach	•	Worked cross-functionally in developing effective ${\bf b}$	usiness strategies and pi	pelines to leverage client	base		
Result	•	Achieved leads conversion rate of 10% from the co	mpany's B2B and B2C cli	ent base in just 2 months	3		
PROJECTS							
	s and I	Forecasting Self Project					
	s and I	Forecasting Self Project To analyze the impact of COVID'19 in Air Quality	Index of major cities in In	dia and also forecast Indi			
Objective		- · · · · ·			a's Avg AQI for 2021		
AQI Analysis Objective Approach	•	To analyze the impact of COVID'19 in Air Quality	died AQI trend during Co dia's Avg. AQI using ADF -	ovid-19 lockdown of majo	r polluted cities e & Decompose Plot		
Objective Approach	•	To analyze the impact of COVID'19 in Air Quality Calculated correlation of pollutants with AQI, stu Checked for stationarity, trend, seasonality of In	died AQI trend during Co dia's Avg. AQI using ADF - ers of final SARIMA (p=0,	ovid-19 lockdown of majo test with 95% confidence d=1, q=2) x (P=1, D=0, Q=	a's Avg AQI for 2021 or polluted cities e & Decompose Plot		
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		on System Applied Machine Learning	Jan'21-Mar'21			
Objective	• T	o build a content-based book recommendation system of 20 Charles Darwin's Collections				
Approach	• P	erformed text normalization (stop words removal, tokenization, stemming), character counts analysi	s per book;			
		reated dictionary corpus from all of the 20 raw textbook files of Charles Darwin's collection				
	• A	applied bag-of-word, tf-idf models to vectorize our textbooks; Calculated cosine-similarity matrix from	n the pairwise			
	d	listance of all textbooks; Plotted dendrogram to understand the similarities				
Result	• R	decommended books by sorting similarity score value to a user's initial pick in the collection				
Binary Classif	ication o	of Occupancy of Room Self Project	Dec'20-Jan'2			
Objective	• T	o determine occupancy of room based on temperature, Humidity, Light, CO ₂ content, Humidity Ratio				
Approach	Applied Linear Probability model, Non-Linear Logit and Probit models to predict the Occupancy class					
	Used VIF for multicollinearity check, Variable Significance Test with 95% confidence for feature selection					
	Evaluated and compared all models on F1-Score, Accuracy and analyzed Pseudo R ² for non-linear models					
Result	• 0	Obtained best accuracy of 0.98, F1-Score of 0.97, Pseudo R2 of 0.9034 with Logit model				
Song Genres	Classifica	ation Data Mining and Knowledge Discovery	Oct'20-Nov'2			
Objective	• T	o classify song genres as hip-hop or rock from audio tracks data				
Approach	Performed data preprocessing, feature reduction (PCA with scree plots), class balancing with SMOTE					
	Applied Decision Tree & Logistic Regression Classifiers and compared them based on accuracy and F1-score					
Result	• A	Achieved test (F1-score: 0.82, accuracy: 78 %) & 10-Fold CV accuracy: 86 % with Logistic Regression				
Bike Sharing I	Demand	Analysis Self Project	July'20-Aug'2			
Objective	• T	o understand the significant factors affecting the demand of shared bikes in the American market				
Approach	• V	Visualized distplots; checked multicollinearity with correlation & VIF, Selected features using RFE based on p values				
Result	• 4	Achieved Adjusted R ² of 0.791 with the final OLS model of only 6 input features with 95% confidence				
SKILLS, COUR	SEWORI	CAND CERTIFICATIONS				
		Python Data Structures & Algorithms (Basics) SQL (MySQL) ML Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn				
Technical Skill	ls:	XG Boost, NLTK, gensim DL Libraries (Beginner): Keras, TensorFlow				
		Analytical Thinking Problem Solving Strategic Thinking Decision Making Adaptability Team Management				
Non-Technical Skills:		Communication Skills Interpersonal Skills Leadership Team Work				
		Data Mining & Knowledge Discovery Applied Machine Learning Statistical Modelling for Business Analytics*				
Academic Cou	ırses:	Advanced Statistical Methods for Business Analytics Probability & Statistics Intro to Computing Financial				
*In Audit		Engineering Operations Research for Management Advanced Decision Models Software Project Management				
		SQL Masterclass: SQL for Data Analytics (Udemy) Time Series Analysis and Forecasting using Pythological Pyt	on (Udemy)			
Online Certifications:		Python for DSA (Udemy) Power BI : Zero to Hero (Udemy) Excel : Beginner to Advanced (Udemy)				
POSITIONS O	F RESPO	NSIBILITY				
• Student's	Sanata	Nominee to Senate Educational Policy Committee, IIT Kanpur	Aug'21-Presei			

Student's Senate Nominee to Senate Educational Policy Committee, IIT Kanpur

Aug'21-Present

- Overseeing the academic policy matters of the institute in the interest of 6000+ student community
- Planning to propose: setting up of new interdisciplinary departments to leverage seminal research outputs
- PG Secretary, Academic Wing, Academics and Career Council, IIT Kanpur

Aug'21-Present

- Conducting orientation, organizing workshops, addressing academic concerns and providing support to 1400+ new PG students
- Teaching Assistant, MBA 749A Social Media Analytics Course, IIT Kanpur

Aug'21-Sept'21

- Graded assignments, inspected class participations, assisted Instructor in course logistics to 30 enrolled students
- Department Internship Coordinator, IIT Kanpur

Sept'20-July'21

- Achieved 100% success rate in the Summer Internship Drive 2020-21 for all 21 students of MTech IME Y20 Batch
- Made awareness of various career paths; Initiated Industry collaborations for long term projects to augment student's learnings
- Promoted department as brand in LinkedIn; Conducted Alumni guest lectures on latest Industry practices to keep students abreast
 - Event Executive, Reflux 6.0, Annual Chemical Engineering Symposium of IIT Guwahati

Jan'18-Mar'18

Managed competitions, workshops, exhibitions and speaker sessions along with a team of 5 executives for a footfall of 1000+

EXTRACURRICULARS AND ACHIEVEMENTS

- Secured 87.96 percentile among 3200+ participants in Amazon ML Challenge, 2021 conducted by Amazon India
- Secured first position in Yoga event among 100+ students at Intra-Batch Games and Sports Competition'17, IIT Guwahati
- Former Active Member of NSO Swimming and Yoga SA groups at IIT Guwahati
- Completed 3 years of Parichay Painting Course (Diploma) in 2009 at Seuj Shilpee & Jagreeti Chitra Mahavidhyalaya, Sivasagar