ANIKET SINHA



2020 B.E. Mechanical Engineering Birla Institute of Technology, Mesra 8. 2016 CLASS XII Vidya Bharati Chinmaya Vidyalaya, Jamshedpur 9. 2014 CLASS XII Vidya Bharati Chinmaya Vidyalaya, Jamshedpur 9. 2015 Statistical Data Analysis, Business Intelligence, Data Visualization, Python, R, SQL, Power BL, MSI VORK EXPERIENCE (34 Months) 2016 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2018 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2018 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2018 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2018 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and strategized delives and Analysis 2019 Managed 15+ reports of 100+ PCs for Pvt Equity Investment Firm, handled 20+ Ad hoc business and Equity Investment Firm, handled 20+ Ad hoc business and Equity Investment Firm, handled 20+ Ad hoc business and Equity Investment Firm, handled 20+ Ad hoc business and Equity Investment Firm, handled 20+ Ad hoc business and Equity Investment Firm, handled 20+ Ad hoc bu	
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Loan Amount Prediction (Regression) Predicted loan amount using regression model on 30k records & 23 features, handled heterosced Assessed multicollinearity: VIF, detected outliers: Cook's Distance, inspected auto-correlation: DW Evaluated OLS, Ridge, Lasso, RF, XGBoost, achieved 20%↑ in adj. R² with XGB Regressor over MLI Fraud Insurance claim prediction (Classification) Ride Demand Forecasting (Time Series) Customer Complaint Classification (NLP) Forecasted hourly demands of rides on 3 months US cab service data, used Ljung-Box for residua Tested stationarity with ADF test, performed STL decomposition, analysed ACF,PACF plots for ARI Implemented SARIMA models, monitored AIC&BIC for model selections and achieved best MAPE of Used Glove.6B.50D for word embeddings, improved accuracy from 0.84(GRU),0.85(biLSTM) to 0.86 ADDITIONAL PROJECTS Question & Answer System (GenAI) Predicted loan amount using regression model on 30k records & 23 features, handled heterosced a Assessed multicollinearity: VIF, detected outliers: Cook's Distance, inspected auto-correlation: DW absence of a Marker of the Australia Action of t	Ranchi
Assessed multicollinearity: VIF, detected outliers: Cook's Distance, inspected auto-correlation: DW ■ Evaluated OLS, Ridge, Lasso, RF, XGBoost, achieved 20%↑ in adj. R² with XGB Regressor over MLI ■ Built classification model on 138k+ data, performed feature engineering, handled class imbalance claim prediction ■ Used DT, LR and RF Classifier as base models for stacking classifier, output then fed to meta models for stacking classifier, output then fed to meta models for classification with ADF test, performed STL decomposition, analysed ACF,PACF plots for ARI ■ Tested stationarity with ADF test, performed STL decomposition, analysed ACF,PACF plots for ARI ■ Implemented SARIMA models, monitored AIC&BIC for model selections and achieved best MAPE of the Classification (NLP) ■ Classified complaints into 5 categories, trained biLSTM, GRU, BERT on 182k data, handled class in Used Glove.6B.50D for word embeddings, improved accuracy from 0.84(GRU),0.85(biLSTM) to 0.88 ADDITIONAL PROJECTS ■ Developed RAG based Q&A system by leveraging GPT-3.5 and Langchain, created interface using State of Created chunks and generated embeddings using OpenAIEmbeddings & used Pinecone for vector	
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Recommendation Engine ■ Constructed BoW, TF-IDF, weighted Word2Vec, SBERT title vectors, stacked image and SBERT title ■ Weighted sum of image, title, brand and colour vectors gave best results with 98% avg Symmetric S	e vecto
Brain Tumor Detection (Deep Learning) ■ Built CNN model on 5.2k brain MRI scan images to detect presence of tumor, performed data augm Leveraged transfer learning with VGG16 model, improved F1 Score to 0.98, 3%↑ over custom CN Implemented U-Net model to detect location of tumor, trained with dice loss and achieved mean Io	N mod
Customer Segmentation ■ Analysed 5L+ retail store data to segment customers; performed feature engineering, RFM analyse ■ Used K-Means, Agglomerative & DBSCAN; achieved Silhouette score-0.23 & DB score-1.37 with F	is & P(
POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS	

Captain - Team Aveon Racing - BIT Mesra

- **Captain Team Aveon Led 40** student-team to manufacture electric vehicle, **headed Finance** Team, secured **6+ Lakhs** sponsorship
 - Organized events at Technical Fest, finished 2nd & 5th among 60+ teams in virtual eBAJA-18 & eBAJA-19

ELECTIVES: Deep Learning, Comp Fin, Healthcare Analytics, FRM INTERESTS: Travelling, Adventure Sports