ASHUTOSH SHARMA



| 10122 | | CATIVONO | | CALCUTTA |
|---|---|--|--|-------------------------|
| ACADE | MIC QUALIFI | | | |
| Year | | Degree /Board | University /Institution | %/CGPA |
| 2025* | Post Graduate Diploma in Business Analytics | | IIM Calcutta, IIT Kharagpur, ISI Kolkata | - |
| 2021 | B.Tech + M.Tech. Mechanical Engineering | | Indian Institute of Technology (BHU) Varanasi | 8.22/10 |
| 2015 | CLASS XII | | Delhi Public School Ghaziabad | 92.8 % |
| 2013 | | | Children's Academy | 10/10 |
| KEY SKI | LLS/TOOLS | Regression Analysis, Deep Learning | g, Python, R, Statistical Data Analysis, PySpark, ETL Too | ls, PostgreSQL |
| WORK | EXPERIENCE | E (23 Months) | | |
| Axtria India Pvt. Ltd. | | Senio | or Associate Noida (J | ul '21 - Jun '23) |
| Data Engineering and Cloud Services | | ■ Maintained unified datahub for diverse clients, streamlining data access and processing across organization | | |
| | | ■ Retrieved and transferred regulatory and label management data from various sources to Amazon S3 | | |
| | | Designed and optimized 250+ ETL pipelines using Streamsets and Azure Data Factory with SCD2 logical Designed framework to automate pipeline & job creation saving 4 hrs/day and processing cost by 28% | | |
| | | ■ Created optimized DAGS (Directed Acyclic Graphs) in Apace Airflow to reduce full load run time by 18%. | | |
| Data Processing and Analysis | | ■ Developed and enhanced 300+ publications for new business requirements using Pyspark & Spark SQI ■ Leveraged Athena and SQL to query source & target data on S3 for validating various ETL process outputs ■ Utilized Python Scripts to auto-detect changes in data granularity, saving a manual effort of 4.5+ hrs/day | | |
| Lea | ndership | ■ Led fifth release of project and colla | borated with various cross-functional teams to resol | ve client issue: |
| AWARD | S AND ACH | IEVEMENTS | | |
| Achi | evements | ■ Secured AIR 2927(out of 156k) in JI | EE Adv. '16 Secured AIR 71 (among top 0.19 percent | ile) in NEST '16 |
| Certifications | | ■ Achieved Azure Data Fundamentals and Databricks Certified Machine Learning Associate Certifications ■ Achieved Databricks Accredited Generative AI Fundamentals & Green Belt Lean Six Sigma Certifications | | |
| Competitions | | ■ National Finalist(Top 9/940) in IDB Analytics 3.0 Analytics Case Competitions hosted by IIM Calcutta '2 | | |
| ACADE | MIC PROJECT | ΓS | | |
| Brand Positioning | | ■ Created Perceptual Map of Hotel chains using OpenAi embeddings, BERTopic and LDA from 12k+ reviews | | |
| through Perceptual Map (NLP) | | Selected no. of topics by coherence score & Employed LR to describe thematic patterns across hotel chain Leveraged Multidimensional Scaling to yield actionable insights while achieving a stress score of 0.090 | | |
| Customer Targeting (Uplift Modeling) | | ■ Performed uplift modelling to identify customers with high propensity to buy dresses after receiving email Implemented Class Transformation , Two model and Solo Model approaches with RF , LR and LightGBM Achieved Qini coefficient of 0.038 Performed Market Funnel Analysis & recommended target customers | | |
| Mechanism of Action Prediction (Classification) | | ■ Predicted MoA for Drugs using dataset with 23k+ datapoints & 800+ features for faster drug developmen ■ Used PCA, Factor Analysis and UMAP for feature engineering MLSMOTE & MSKF for imbalanced datase ■ Implemented Xgboost, Random Forest, Logistic Regression and NN and reduced logloss value to 0.0157 | | |
| Electricity Price Prediction (Time Series) | | ■ Performed ADF test for stationarity; | ed Electricity Price in Day-Ahead market using temperature, input prices as Exogenous Variable ed ADF test for stationarity; Analyzed ACF & PACF plots & obtained MAPE 17.33% for Naive mode d Base Model performance to 14.4% using SARIMAX , 8.9% using LSTM , and 8.1% using Deep RNI | |
| Used Car Price Prediction (Regression) | | ■ Predicted used cars prices(11.8k+ records) & used iterative imputer detected multicollinearity with VI ■ Used PCA, Lasso & Ridge regr. Performed residual analysis Handled influential pts. with dffits statisti ■ Adj. R² 0.77 (↑11.5%) Analyzed non-linear models: AdaBoost, XGB, RF and enhanced Adj. R² to 0.84 (↑ 9%) | | |
| ADDITI | ONAL PROJE | ECTS | | |
| | ding Page neration | ■ Encoded text using SBERT and perfo | ed content for landing page of ecommerce website us rmed vector storage, retrieval and query matching u gents for creating taglines, detailed descriptions & b | ising Langchair |
| _ | Detection ing LLM | | ning spam SMS detection system utilizing GPT-2 large AUC score from 0.46 to 0.93 & further enhanced it to 0.9 | |
| | Customer nentation | | tion using K-Means on vector embeddings of 45k+ cu Elbow method for no. of clusters & obtained Silhouet | |
| Recom | ımendation | ■ Built a collaborative Movie RecSys | with MovieLens100k dataset using memory based str | ategy with KNN |
| E | Engine | ■ Used Bias subtraction & bayesian b | ased optuna hyperparameter tuning to improve MSE fr | om 9.72 to 3.25 |
| POSITIO | ONS OF RES | PONSIBILITY & EXTRA CURRICUL | ARS | |
| DS Case | book PGDBA | ■ Devised solutions for ecommerce & | $\textbf{telecom} \ \text{industry related cases in} \ 2^{nd} \ \text{version of} \ \textbf{PGDE}$ | BA DS casebool |
| Wo | orkshop | Organized a workshop for guiding th | e young minds in choosing right career options & cond | ucted Math qui z |

ELECTIVES: NLP, Bayesian Methods, Financial Risk Management INTERESTS: Watching Cricket, Skipping