

AKASH VASANT BUNDE

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WORK EXPERIENCE

Focus Ten Consulting

DATA SCIENTIST

Jan 2023 – Ongoing

- Developed a next-order predictor model for B2B sales, enabling tailored communication and increasing response rate by 5%
- Implemented a freight predictor model using Random Forest for UPS shipments to reduce losses in freight charges by over 60%
- Communicated regularly with stakeholders for requirement gathering, explaining model outputs and interpretations of analysis

DATA SCIENCE INTERN

Jul 2022 – Dec 2022

- Developed and deployed a recommender system model for B2B suppliers, increasing their average booking value by 5.6%
- Designed marketing campaigns, evaluated through multivariate A/B testing, drove 40% lifts in click through rates (CTR)
- Engineered an end-to-end model lifecycle management pipeline with Azure, Docker, improving model update time by 40%

MERILYTICS, Advanced Analytics Solutions

Dec 2019 – Aug 2021

DATA SCIENTIST

- Led the project to build an end-to-end predictive model to identify potential high-value customers among 20K monthly website visitors
- Achieved an accuracy of 71.6% with the help of regression and parameter tuning, which increased the client revenue by 3.9%
- Modified and upgraded existing ETL pipelines for Big Data in the Azure data factory reducing labor time by 2 hours per day
- Recommended budget allocation strategy through Multi-Touch attribution models with improvement in acquisition payback by 19%
- Leveraged Azure Databricks platform to deploy CATBoost model in production reducing the model retraining time by 40%
- Analyzed customer cohorts using DBSCAN to support targeted marketing leading to an improvement of 30% in conversion rate
- Utilized Marketing Mix Models to overhaul campaigns across all channels leading to an improvement in ROI by 9%, CAC by 5%
- Mentored and trained 20+ data and business analysts in Excel, Python, SQL, Power BI and ML techniques during onboarding

INDIAN INSTITUTE of MANAGEMENT (IIM)

Jun 2019 – Nov 2019

RESEARCH ASSISTANT

- Elevated analysis of ~50 major firms' quarterly conference call transcripts by implementing advanced NLP techniques—tokenization, vectorization, and named entity recognition—preparing data for sentiment analysis (NLTK, spacy)
- Clustered firms using LDA, cosine-similarity, identified polarity of firms with lexical sentiment analysis for stock signaling in market

GEP Worldwide

Jun 2017 – Apr 2019

DATA SCIENCE ENGINEER

- Revamped data aggregation pipeline of 100+ clients by using PySpark, and Hive and achieved 15x speed up in the process
- Led a team of 3 data engineers to design and develop ETL pipelines that performed efficient data wrangling with Azure Data Factory
- Engineered APIs on serverless architecture [Azure] in collaboration with cross-functional teams, increasing throughput by 50%

PROJECTS

Credit Risk Modelling

Aug 2021 – Dec 2021

- Predicted the propensity of credit default and average returns of an applicant using financial and credit history
- Coded ML models using regression (ridge, lasso, elastic), and tree methods (ensemble learning XGBoost), performed hyperparameter tuning to increase accuracy from 60 to 70%, and evaluated the model using ROC curves, AUC values, MSE, MAE

Predicting Ratings based on Yelp Reviews

Aug 2021 – Dec 2021

- Created a text classification model to predict ratings of restaurants based on customer reviews (unstructured text data) (accuracy 80%)
- Utilized NLP techniques like feature vectorization to build models using SVM, and Naïve Bayes on a dataset of 24K reviews

RELEVANT SKILLS

Programming : Python, R, SQL, PySpark, Excel Macros, Scikit-Learn, PyTorch, BigQuery, AWS, Azure, GCP, CI/CD

Techniques : Hypothesis Testing, Supervised/Unsupervised, Model Lifecycle Management, Model Evaluation, SVM, XGBoost, Regression, Classification, Clustering, NLP, LLM, GenAI, Recommender Systems, A/B Testing

Certifications : Microsoft Certified Associate (Azure Data Engineering)

EDUCATION

UNIVERSITY OF ILLINOIS at CHICAGO (UIC) | Chicago, IL

Master of Science in Business Analytics [Data Science] (STEM),

Aug 2021 - Dec 2022

Relevant Coursework: Statistics, Machine Learning, MLOPs, Big Data, Text Analytics, Healthcare Analytics, Time-series Forecasting

INDIAN INSTITUTE OF TECHNOLOGY (IIT), BOMBAY | Mumbai, India

Bachelor of Technology, Engineering

Jul 2013 - Jun 2017

ADDITIONAL INFORMATION

Honors: First runner-up position in Hackathon organized by GEP Worldwide in collaboration with Microsoft