

Abhishek Saini

Data Scientist

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Summary

Experienced data scientist with expertise in machine learning, statistical analysis, and data visualization. Proficient in Python, analytics, and data-driven problem-solving. Skilled in solving complex business challenges through data-driven insights, A/B testing, and predictive modeling.

Internship

Data Analyst Intern, Accenture, Sikar, Rajasthan

Feb '22 - Mar '22

- Conducted comprehensive data cleaning and analysis using Python and SQL, uncovering valuable trends and patterns.
- Designed interactive Tableau dashboards for real-time data monitoring.
- Contributed to the development and implementation of predictive machine learning models for customer segmentation.

Data Scientist Intern, Ineuron.ai, Bangalore, Karnataka

Oct '22 - Jul '23

- Spearheaded the development and deployment of advanced models for credit card fraud detection.
- Conducted feature engineering and managed imbalanced data.
- Orchestrated end-to-end data pipelines, optimizing data processing efficiency.
- Managed model deployment, continuous monitoring, and scaling for production.

Projects

Customer Churn Prediction

- Developed a robust predictive model with an 85
- Utilized Python and Scikit-Learn for data preprocessing, model development, and evaluation.
- Established efficient end-to-end data pipelines, reducing time-to-insights by 40
- Conducted comprehensive data exploration to identify key predictors of churn.
- Fine-tuned model hyperparameters and conducted A/B testing to optimize performance.
- Translated model findings into actionable strategies, resulting in a 20
- Led a comprehensive data mining and analysis initiative, utilizing machine learning algorithms to identify key factors influencing churn behavior; findings informed targeted retention strategies resulting in a 25
- Conducted extensive data exploration and analysis to identify key predictors of churn, leveraging advanced statistical techniques to uncover insights that reduced churn rate by 15

Text Classification Project

- Developed a user-friendly web app using Flask for real-time text classification.
- Integrated advanced models, including LSTM and BERT, achieving a 90
- Orchestrated end-to-end data pipelines, reducing data processing time by 50
- Successfully deployed the app on Heroku for broad public access.
- Implemented version control and automated scaling for high user loads.
- Enhanced user engagement by 30

Market Sentiment Analysis

- Conducted sentiment analysis on financial news articles using Natural Language Processing (NLP) techniques.
- Built and trained a custom NLP model to classify news sentiment as positive, negative, or neutral.
- Utilized Python, NLTK, and BERT for data processing and modeling.

- Achieved a sentiment classification accuracy of 88

Skills

- **Programming Languages:** Python, SQL
- **Data Analysis:** Pandas, NumPy, Scikit-Learn
- **Statistical Modeling:** Regression, Classification, Clustering
- **Data Visualization:** Matplotlib, Seaborn, Tableau
- **Database Management:** SQL, MongoDB
- **Tools:** Jupyter Notebook, Git, Docker
- **Statistical Analysis:** Hypothesis Testing, A/B Testing
- **Machine Learning:** Random Forest, Gradient Boosting, Neural Networks
- **Natural Language Processing (NLP):** NLTK, spaCy, BERT
- **Big Data Technologies:** Hadoop, Spark
- **Version Control:** Git, GitHub
- **Data Warehousing:** Amazon Redshift
- **Cloud Computing:** AWS, Azure
- **Time Series Analysis:** ARIMA, Prophet
- **Feature Engineering:** PCA, Feature Scaling
- **Data Preprocessing:** Data Imputation, Outlier Detection
- **Model Evaluation:** Cross-Validation, ROC AUC, F1 Score
- **Deep Learning Frameworks:** TensorFlow, Keras
- **Distributed Computing:** MapReduce, Spark
- **Data Integration:** ETL, Data Pipelines
- **Word Processing:** Microsoft Word, Google Docs

Education

Bachelor of Science - Mathematics

Pandit Deendayal Upadhyaya Shekhawati University, Sikar, Rajasthan 2019 - 2022

High School

Navjeevan Science School, Sikar, Rajasthan 2018 - 2019

Languages

- English (Fluent)
- Hindi (Fluent)

Certification

- Data Science Bootcamp 2.0 by Ineuron.ai 2022-2023
- Accenture Virtual Internship 2022-2022

