Arijit Dey

west bengal,india

8961714829 | deyarijit063@gmail.com

🌐 *https://github.com/arijit99999*

in *https://www.linkedin.com/in/arijit-dey-datascientist1/*

Profile Summary

Experienced **Data Scientist** with a strong background in **machine learning, statistical analysis, and data visualization**. Skilled in leveraging **data to drive business decisions and solve complex problems**. Proficient in various programming languages, **ETL**, **data manipulation**, and machine learning frameworks. Adept at working with cross-functional teams **to deploy models and analytics solutions in production environments**.

Experience

- **iNeuron Intelligence Pvt Ltd**   March 2024 - Present
  Data Scientist
  Developed and deployed machine learning models for customer segmentation, resulting in a 20% increase in targeted marketing campaign effectiveness. Implemented market basket analysis using association rule mining, enhancing cross-selling strategies by 15%. Conducted agricultural commodity price forecasting using time series analysis, improving supply chain decision making. Collaborated with cross-functional teams to design and deploy models using **Docker, AWS ECR, and AWS App Runner**. Automated data pipelines with Apache Airflow, reducing data processing time by 30%.

Skills

- **Programming Languages**: **Python, R, SQL**
- **Machine Learning**: **Scikit-Learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM Data**
- **Manipulation: Pandas, NumPy, Spark**
- **Data Visualization**: *Matplotlib, Seaborn, Plotly, Tableau, Power BI*
- **Big Data Technologies**: **Hadoop, Hive, Spark**
- **Databases**: **MySQL, PostgreSQL, MongoDB**
- **DevOps & Deployment**: **Docker, Kubernetes, Jenkins, Git, GitHub Actions, CI/CD, AWS ECR, AWS App Runner(MLOps)**
- **Cloud Platforms**: **AWS (EC2, S3, RDS, Lambda, Redshift, SageMaker), Azure**
- **Tools & Libraries**: **Jupyter Notebooks, Anaconda, Apache Airflow, MLflow, DVC**
- **Statistical Analysis**: **Hypothesis Testing, Regression Analysis, Time Series Analysis, A/B Testing**
- **NLP**: **NLTK, SpaCy, Gensim, BERT, GPT**
- **Deep Learning**: **CNNs, RNNs, LSTMs, GANs, Autoencoders**

Projects

- **Book Recommendation System Desktop App**

  Developed a Book Recommendation System desktop app **utilizing cosine similarity** for personalized recommendations. Deployed the application **using AWS ECR and AWS App Runner** for efficient and scalable performance. **Automated deployment pipelines with GitHub Actions to ensure continuous integration and delivery**. Enhanced user experience by providing accurate and tailored book suggestions.

- **Clustering for Customer Segmentation & Understanding.**

  Developed a comprehensive customer segmentation solution **using PCA, t-SNE, AdaBoost, K-Means, and DBSCAN algorithms**. Deployed the solution with **Docker, MLflow, AWS ECR, and AWS App Runner for scalability and performance**. Implemented **automated CI/CD pipelines** using GitHub Actions for seamless integration and deployment. Enabled enhanced customer insights and targeted marketing strategies through advanced data **clustering techniques**.

- **Agriculture Commodity Price Forecasting**

  Developed an Agriculture Commodity Price Forecasting model using **ARIMA, SARIMAX, and FBProphet** to predict market trends. Deployed the forecasting application **using Flask, Docker, AWS ECR, and AWS App Runner** for reliable and scalable performance. **Automated CI/CD pipelines** with GitHub Actions for continuous integration and seamless deployment. Improved decision-making for farmers and traders through accurate price **predictions**.

- **Market Basket Analysis**

  Implemented Market Basket Analysis using the **Apriori algorithm to derive association rules** and uncover customer purchase patterns. Developed and deployed a web application using **Flask, Docker, AWS ECR, and AWS App Runner** for efficient and scalable operations. Automated the **deployment** process **with GitHub Actions** to ensure continuous integration and delivery. Enhanced retail strategies and inventory management through insightful **data analysis**.

Education

- **Gargi memorial institute of technology (wbut)**   2021
  B-tech
  8.32

Certification

- **Masters in data science and artificial intelligence**