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WORK EXPERIENCE

Brainwave Matrix Solutions intern - Data Scientist

07/24-09/24

- Twitter Sentiment Analysis: Link
 - Built an NLP-based sentiment analysis model to classify tweets as positive or negative.
 - Implemented Logistic Regression, SVM, and Bernoulli Naive Bayes models, achieving the highest F1 score and accuracy with Logistic Regression.
 - Sale Data Analysis of Commercial Store:Link
 - Increased revenue by 15% and improved decision-making speed by 30% through Python-based sales trend analysis, VLOOKUP-enabled Excel dashboards, and Power BI visualizations across 4 store locations, tracking 10+ KPIs and 12 months of sales data
 - Optimized staffing and promotions, improving workforce efficiency by 20% and reducing stockouts by 15%, using insights from SQL queries on 10,000+ transactions to identify peak sales hours and top-selling products.

physics wallah

intern - Data Scientist

08/2023 - present

Allergy Prediction System: Link

Tools & Technologies: Diango, Python, Random Forest, Machine Learning, Data Preprocessing

- Developed an end-to-end Allergy Prediction System using the Django framework and Machine Learning to predict allergic reactions.
- Achieved 81% accuracy, with improved model performance metrics such as 79% recall, 82% precision, and 80% F1 score.
- Designed and deployed the system to assist doctors in reducing assessment time and helping patients manage allergies proactively.
- Integrated a machine learning model to provide real-time predictions based on user input, enhancing healthcare decision-making.
- Electrolyte Imbalance Prediction System: Link
 - Developed a predictive model achieving 80 % accuracy in identifying electrolyte imbalances based on serum test results.
 - Implemented a Random Forest Classifier with 100 estimators, significantly improving prediction reliability.
 - Scaled features using StandardScaler, enhancing model performance and accuracy.
 - Helped doctors and patients effectively analyze test results, facilitating timely medical decisions and improved patient outcomes.
 - Automated the prediction process for test labs, reducing the time needed for doctors to assess patient data by 5 minutes per patient.
- Analytics for Supply Chain:
 - Reduced employee effort for each Buyer by 20 days.
 - Gathered business requirements and effectively analyzed business needs to translate them into deliverables.
 - Designed complex data models identifying cardinality and join conditions between 20 tables from SAP each containing 50 lakhs of records.
 - Designed data visualization charts for multiple KPIs like impact of change in prices of raw material on the final product, Share of Business (SOB) of suppliers and its impact in Power Bi for the parts used in Bikes at 6 manufacturing Plants across India.
 - Led a team of 3 developers for building 12 Power Bi dashboards that enabled users to easily interpret complex datasets and identify trends quickly, resulting in improved decision-making and reduced cost by 30%.
 - Collaborated cross-functionally with diverse teams in cleaning the data and building root cause analysis solutions for 500+ business queries within a restricted time frame, increasing the user engagement by 40%.

Taazaa.inc, Noida

Associate Software Developer (Full Stack Developer)

04/2022 - 07/23

- Curated and extracted data from diverse websites using web scraping tools. Conducted thorough data cleaning processes to ensure accuracy and relevance, analyzing and extracting insights.
- Developed interactive graph dashboard and user interface using the Appsmith, MySQL, and JavaScript to reduced time by 3 months.
- Query Optimization and Performance Enhancement to Designed and optimized SQL queries to enhance data retrieval efficiency, significantly reducing page load times and improving overall application performance by 30%.

EDUCATION

B.Tech. Computer Science and Engineering (Ai & MI), Sharda University, Greater Noida 07/2018 - 06/2022

Class 12, Pannu Lal Singh college, Patna 2017

Class 10. S.D.V. Public School.Patna 2015

KEY SKILLS

Machine Learning: Supervised Learning, Classification, Regression, Linear Regression, Logistic Regression, Decision Tree, SVM, KNN, Ensemble techniques, Gradient Boosting, XGBoost, Random Forest, Unsupervised Learning, Dimensionality Reduction, Clustering, Principal Component Analysis, K-Means, One-hot encoding, Exploratory Data Analysis;

Deep Learning: ANN, Convolutional Neural Network, RNN, Natural Language Processing NLP, LSTM, Transformer, BERT, GPT, LLM, Langchain, Llama, Palm Transfer Learning, Tensorflow,

Tools: Anaconda, Jupyter Notebook, Django, Spyder, Python, StreamLit, Open AI, Hugging Face;

Libraries: scikit-learn, numpy, pandas, plotly, matplotlib;

Data Analytics: Structured Query Language (SQL), Data Modeling, Data Visualization, Power Bi, Tableau, SSMS, MS Office: Excel, PowerPoint, Business Intelligence; Cloud: Microsoft Azure, Snowflake, Azure Data Factory;

Others: Artificial Intelligence, Mathematics, Statistical Modeling, Data Structures and Algorithms, Database Management System, Object Oriented Programming, Problem solving, Stakeholder Management

RESEARCH PAPER PUBLICATIONS

REAL-TIME MULTIPLE OBJECT DETECTION AND TRACKING: A Hybrid Model Unifying Computer Vision, Deep Learning and Machine Learning -ijsrem Journals Link

COURSES/ ACHIEVEMENT

- Microsoft Power Bi Data Analyst Course
- SQL programmer on Hackerrank

Full stack Data Science Pro Course, physics wallah

EXTRA CURRICULAR ACTIVITIES

- Core member, Team Management, Promotion Team and Photography Society: Led a team of 20 students and organized various workshops for Fest cultural program
- Volunteered at a blood donation camp organized by Sharda Society to promote blood donation for people in need.