MOUNA SRI SAI

Data Analyst / Data Scientist

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Professional Summary

Detail-oriented data enthusiast with a strong background in statistical analysis, data visualization, and data-driven decision-making. Proficient in Python, SQL, and data visualization software like Power BI and Tableau. Skilled in creating and maintaining ETL pipelines, dashboards, and performing complex data mining tasks to improve operational efficiency and business intelligence. Proven ability to communicate complex findings clearly to both technical and non-technical stakeholders. Passionate about leveraging data to drive business growth, support strategic initiatives, and enhance big data analytics processes.

Education

Master's in data science and analytics – University Of Hertfordshire – Hatfield, UK   Sep2024

B. Tech in Computer Science and Engineering – Lovely Professional University – Punjab, India   June 2020

Skills

- **Languages:** Python, SQL
- **Frameworks:** Pandas, NumPy, SciPy, Matplotlib, Scikit-Learn, Tkinter, Seaborn.
- **Machine Learning:** Supervised learning (Classification, Regression), Unsupervised Learning (Clustering), Deep learning (CNNs, RNNs)
- **Tools:** Power BI, Excel, Tableau, Alteryx.
- **Soft skills:** Effective Communication, Strong Stakeholder management, Organizational Skills, Problem solving and Analytical skills.

Projects

LOAN ELIGIBILITY ANALYSIS – Eligibility prediction   March 2024

- Developed an ML model to predict loan eligibility, achieving up to 95% accuracy by evaluating Gaussian Naïve Bayes, SVM, Random Forest, Decision Tree, and Logistic Regression, reducing processing time by 30%.
- Spearheaded the utilization of performance metrics such as Confusion Matrix, Precision, Recall, Accuracy, and F1 Score to evaluate various models, identified key areas for enhancement, and successfully improved model performance by 25%.

CROSS LINGUAL OFFENSIVE LANGUAGE DETECTION – Predictive modeling   July 2024

- Developed a machine learning model to detect offensive language in English and Arabic using cross-lingual transfer learning, achieving over 50% accuracy using ensemble methods.
- Preprocessed over 30,000 social media posts, including tokenization and stop words removal, to enhance data quality and model accuracy

SALES INSIGHTS – Brick & Motor Business [Power BI | SQL]   February 2023

- Designed a Power BI dashboard to understand AtliQ hardware goods sales trends.
- The final dashboard was effective at displaying the sales trend of AtliQ hardware, allowing users to understand the data and make informed decisions.
- This dashboard could help in increasing the revenue at least by 7% in the next quarter.

T20 WORLDCUP CRICKET DATA ANALYSIS – Cricket Analysis [Python | Pandas | Power BI]   December 2023

- Created a Power BI report to identify the top 11 players for a t20 cricket team by scrapping data from ESPN Cricinfo with a Bright data website tool, cleaning and transforming the data with Pandas, and evaluating various player performance metrics.
- Used a resulting Power BI dashboard to select players for various categories (openers, middle order, finishers, all-rounders, specialist fast bowlers) and ultimately choose the top 11 players to play in the match.
- Selected team using the Power BI dashboard has 90% of chances to win the game.

Work Experience

ASSOCIATE SOFTWARE ENGINEER – Innominds Software Pvt ltd **–** Hyderabad, India   Feb 2021 – Nov 2022

- Analyzed business requirements meticulously and documented comprehensive design specifications to ensure clarity and alignment with project goals.
- Proficiently debugged existing codebases, swiftly identifying and rectifying errors to maintain the integrity and functionality of software solutions.
- Leveraged Python programming skills to develop new applications and enhance existing ones, contributing to the overall advancement of software products by 20%.
- Utilized Alteryx Designer to analyze extracted data effectively, facilitating the creation of globally reusable workflows for enhanced efficiency and scalability across projects by 30%.
- Spearheaded the creation of production workflows for cash and disbursement, implementing rigorous sanity checks to prevent duplication and streamline workflow processes, reducing errors by 40%.
- Leveraged MySQL to design and maintain relational databases, optimizing data storage and retrieval processes for improved performance and reliability.
- Maintained open communication channels by regularly updating team leads and clients on daily tasks, ensuring transparency and alignment with project objectives.
- Actively participated in daily client calls, engaging with clients to resolve queries and address concerns promptly, fostering strong client relationships and ensuring client satisfaction.