

YASWANTH PATI

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EDUCATION

Saint Peter's university

M.S in Data Science, GPA: 3.9/4.0

Jersey City, NJ

Feb 2023 - Feb 2025

PROFESSIONAL EXPERIENCE

Elegantek

MI, USA

Data science intern

Jun 2024 – Aug 2024

- Implemented predictive models using machine learning algorithms, leading to 20% more efficient operations.
- Carried out data preprocessing and feature engineering on large data, enhancing model accuracy by 15%.
- Utilized NLP-powered sentiment analysis to study customer comments, increasing engagement by 25% using data-informed insights.
- Prepared interactive dashboards using Power BI and Tableau to support stakeholders' decision-making.
- Deployed ML models hosted through Flask and Azure to enable real-time analysis and seamless model integration.

Infosys Limited

Hyderabad, India

Data Analyst

Jan 2021 - Jul 2022

- Cleaned raw data sets through rigorous preprocessing techniques leveraging Python and SQL; identified key trends which informed strategic business initiatives that enhanced operational efficiency by 30%.
- Reduced processing time by 20 hours monthly and boosted operational efficiency by streamlining data pipelines and optimizing integration with various data sources.
- Designed interactive web-based dashboards integrating SQL databases with Tableau and Power BI, enhancing audience engagement through continuous analysis and securing user satisfaction ratings above 90% across all platforms.
- Collaborated with diverse teams to develop data-driven web solutions, leading to a 30% reduction in project delivery time through the effective implementation of Agile methodologies and Git version control practices.

TECHNICAL SKILLS

- Programming Languages: Python (NumPy, Pandas, Scikit-learn, Matplotlib), R.
- Machine Learning: Supervised and Unsupervised Learning, Regression analysis, Classification, Clustering, Feature selection, Ensemble methods.
- Natural Language Processing: Tokenization, Word Embeddings, NER, Sentiment Analysis, Transformer Models, BERT.
- Data Analysis Tools: Tableau, Power Bi, Apache Spark, Excel, Azure.
- Tools: Excel, Git, Angular framework, Node.js, Jupyter notebook, GitHub.
- Work Methodologies: Agile Environment
- Database Management Systems: SQL, MySQL, PostgreSQL.

NOTABLE PROJECTS

Multi-Model Text Summarization Using NLP Models

Feb 2025

- Created an NLP-based text summarization system using BART,T5 and Pegasus models.
- Built a Flask API to process user input and generate summaries dynamically.
- Utilized similarity scores using TF-IDF, BERT Cosine and Word2Vec to assess the similarity of the summaries generated by the 3 models.
- Built an interactive UI with real-time text summarization and model comparison.

Route Planning for sensitive populations

Nov 2024

- Innovated a comprehensive mapping tool integrating live data on pollutants from roadways via Azure Maps API; directly contributed to reducing daily commute-related respiratory issues by informing users about cleaner travel options available.
- Developed a comprehensive route visualization system integrating air quality indicators and climatic factors; enabled for users to access critical environmental information directly from interactive tool tips.
- Engineered interactive features facilitating intuitive vocal inputs for geographic routes; streamlined data retrieval processes reduced average query handling time from two minutes to just under fifty seconds per request.

Wildfire Prediction Using ML

Nov 2024

- Devised an advanced predictive model utilizing brightness values from the MODIS and VIIRS satellite dataset, achieving a classification accuracy of over 95% through rigorous cross-validation against real-world wildfire conditions.
- Achieved high accuracy in intensity classification using a Random Forest Classifier, with results validated through cross validation. Established a Confidence Level Classification Model, achieving 97% accuracy, leveraging features like brightness, FRP, and track dimensions.

CERTIFICATIONS

- SQL certification from Frontlines Edu Tech Private Limited (Apr 2024).
- Google Data Analytics from Coursera (Jun 2022).