Rohitha Velineni

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Education

University of North Carolina Charlotte Charlotte,NC August 2022 – May 2024
Masters in Data Science and business analytics

Jawaharlal Nehru Institute of Technological University kakinada Guntur, India August 2018 – May 2022
Bachelor of Technology in Information Technology

Skills

- Languages: Python, AWS, Java, R, SQL, C, C++, HTML, CSS
- Frameworks and Software: Machine learning, TensorFlow, PyTorch, Pandas, Scipy, Sci-kit learn, MongoDB,Tableau, Powerbi, MS office, Android Studio, Github, Canva.

Work Experience

Machine learning and AI engineer – AstraMEP corporation January 2024 – present
Charlotte, NC

- Utilizing Azure for automatic detection of architectural elements in floor plans, improving analysis accuracy and efficiency. Skilled in annotating images with CVAT, creating a comprehensive database of annotated floor plans for model training.
- Developed machine learning models using TensorFlow and PyTorch to identify walls, doors, and windows in floor plans, enhancing architectural design processes. Automated pipeline design for hot water, gas, and water systems, allowing for customizations based on user specifications.
- Gained practical experience with cloud platforms, including Microsoft Azure and AWS, to support and optimize project workflows.

Data Analyst Intern – Kireeti soft technologies February 2022 – June 2022
Hyderabad, India

- Spearheaded the use of Python and SAS to analyze historical payroll data, enabling accurate predictions of clients and liabilities, leading to a 15% increase in payroll revenue and proposed financial forecasting capabilities.
- Implemented regression and time series analysis in Python and SAS to forecast payroll clients and liabilities, resulting in a 20% reduction in payroll processing errors and improved cash flow management.
- Collaborated closely with a senior analyst, gaining practical proficiency in Tableau, Power BI, and SAS tools. Leveraged SAS's capabilities to enhance data accuracy and streamline processes, leading to increased performance by 10

Projects

Prediction of diabetes using Machine Learning

- Devised an innovative approach named Random Forest Optimization using Backward technique in Python. Through the utilization of heat maps, reduced attribute complexity by 10%, streamlining user interaction by 12%.
- Identified and retained key attributes that are influencing outcomes, employing a strategic backward elimination technique. This process resulted in a noteworthy accuracy increase of 25% on average, showcasing a profound impact on model performance.

NBA fantasy creation using snowflake

- Sought to empower basketball aficionados in tactically curating the fantasy teams, harnessing an array of player centric data encompassing scoring analysis, three-pointer proficiency, free throw rates and win-loss ratios.
- Implemented Snowflake's formidable querying prowess to compute comprehensive player scores, amalgamating vital metrics like points, rebounds, assists, and defensive contributions. Instrumental in identifying standout players, facilitating fans in assembling fantasy teams that showcased remarkable on-court prowess. Facilitated to 60% increase in user engagement by delivering an enriched fantasy team selection experience.

Coffee Chain Analysis using Tableau and Streamlit

- Improved sales tactics by strategically identifying high-performing coffee products and pinpointing areas requiring sales uplift. Harnessed Tableau's robust visualization tools to unveil insightful data patterns and correlations.
- Distinguished top-selling coffee items, driving 70% of total sales.Translated findings into a Streamlit application, enabling real-time monitoring and informed decision-making

Paper Presentation

- Presented an IEEE paper on "**Analyzing crop yield using Machine learning**"