Harshitha Jonnalagadda

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EDUCATION

Binghamton University, State University of New York
Master of Science in Information Systems **May 2024**

TECHNICAL SKILLS

Programming Languages & Frameworks: C, Java, Python, R, Django, Flask
AI/ML & Cloud: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Azure Data Factory, Azure Databricks, Azure Data Lake
Data Visualization Tools: Power BI, Tableau, Matplotlib, Seaborn
Tools: Git, GitHub, Postman, Jupyter Notebook
Databases: MySQL, MongoDB, PostgreSQL
Operating systems: Windows, Linux, MacOs
Certifications: Python, Data Science, Databases and SQL, Cyber Security, WIPRO Milestone, Aviatrix cloud, Data Analytics simulation, GenAI

PROFESSIONAL EXPERIENCE

Binghamton University **August 2024 - Present**
Research Analyst

- Researched and evaluated advanced Machine Learning techniques to optimize analysis, driving improvements in decision-making processes.
- Developed and tested various machine learning models to support data-driven decision-making, aligning insights with organizational goals.
- Engineered and fine-tuned predictive models to enhance forecasting accuracy, contributing to strategic initiatives and business planning.

Machint Solutions | Telangana, India **June 2021 - May 2022**
Data Analyst

- Defined Python scripts utilizing pandas and NumPy to aggregate and analyze data from Azure sources, resulting in a significant reduction in data processing time and increasing the efficiency of data workflow, and by using Matplotlib and Seaborn libraries for visualization.
- Created interactive Power BI dashboards by gathering data from Azure Data Lake to monitor access control, customized plots to meet specific user needs and identity verification, enhancing security protocols and reducing unauthorized access incidents by 15%.
- Enforced advanced data comparison techniques using Excel functions like PivotTables and vLookup, alongside Python scripting and error-checking mechanisms, resulting in a 30% increase in data accuracy and consistency across SQL databases and Excel files.
- Collaborated closely with the Agile team members to ensure timely completion of projects, contributing to an improvement in project delivery timelines. Facilitated knowledge-sharing sessions and peer reviews and contributing to overall project success.

Junior Reporting Analyst **December 2020 - June 2021**

- Created dynamic dashboards in Power BI to monitor KPIs, analyze trends, and support decision-making, lead to 20% improvement in reports.
- Utilized Azure Data Lake, SQL, and Excel functions to extract, transform, and analyze 500+ datasets, improving reporting accuracy.
- Streamlined budgeting and forecasting workflows by leveraging historical data and ensuring alignment with organizational objectives.

KL University | Andhra Pradesh, India **June 2020 - November 2020**
Student Mentor

- Guided students in developing a responsive university website using HTML, CSS, and JavaScript, ensuring seamless navigation and access.
- Mentored peers in implementing basic backend functionality with MySQL, enabling the management of student and faculty data.
- Conducted workshops on website deployment and maintenance with Git/GitHub, emphasizing version control and collaborative development practices to ensure consistent updates and improved user experience.

PROJECT EXPERIENCE

Customer Churn Prediction **August 2024 - December 2024**

- Operated and adjusted machine learning models, including Random Forest and XGBoost, to predict customer churn, providing data-driven insights to improve customer retention strategies ultimately improving customer satisfaction and reducing churn rates by 15%.
- Processed and cleaned data by handling missing values, encoding categories, and engineering features to enhance high model accuracy.
- Deployed the Random Forest model through Flask application, enabling dynamic churn prediction with user-friendly customer data input.

House Rent Prediction **January 2024 - May 2024**

- Implemented machine learning models using Python, Pandas, and Scikit-learn and algorithms including linear regression to identify best performing model, fine-tuned hyperparameters using cross validation techniques resulting 20% increase in predictive accuracy.
- Constructed end-to-end pipelines for automated data processing and model training, feature extraction, ensuring scalability and maintenance.
- Improved transparency and decision-making in real estate transactions by leveraging advanced predictive analytics into user friendly interface, which led to improvement in pricing accuracy by 15% and facilitated more effective negotiations.