

Harshitha Jonnalagadda

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Information Systems

May 2024

TECHNICAL SKILLS

Programming Languages: C, Java, Python

AI/ML Frameworks: TensorFlow, PyTorch, Scikit-learn, Pandas.

Data Visualization Tools: Power BI, Matplotlib, Seaborn

Specializations: Natural Language Processing, Deep Learning, Neural Networks

Tools: Git, GitHub, Postman, Jupyter Notebook, Django

Databases: MySQL, MongoDB

Operating systems: Windows, Linux, MacOS

Certifications: Python for Data Science & AI, Databases and SQL for Data Science with Python, Cyber Security Expert (Simplilearn), WIPRO Milestone (project-based training), Aviatrix Multi Cloud Network Associate

PROFESSIONAL EXPERIENCE

Binghamton University

August 2024 - Present

Machine Learning Intern

- 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 diverse 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 multiple sources 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 Intern

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 SQL and Excel functions to extract, transform, and analyze 500+ datasets, improving reporting accuracy and operational efficiency.
- 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 for Web Development

- 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, independent project

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, independent project

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.