Harshitha Jonnalagadda

(508)-962-2080 | jonnalagaddah2000@gmail.com | LinkedIn | **GitHub**

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**

K L Deemed-to-be University, India
Bachelor of Technology in Computer Science **May 2022**

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
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

- Conduct research on Machine Learning techniques to enhance predictive analysis, with a focus on improving decision-making processes.
- Experiment with various machine learning algorithms to develop models that drive data-driven decision-making across the organization.
- Implement and fine-tune advanced predictive models to increase forecasting accuracy, supporting strategic initiatives and business planning.

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

- Developed 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 team members to ensure timely completion of projects, contributing to a improvement in project delivery timelines. Facilitated knowledge-sharing sessions and peer reviews and contributing to overall project success.

Junior Data Analyst Intern **June 2020 - June 2021**

- Utilized Power BI to track and report financial performance, identifying cost-saving opportunities that led to a 10% increase in profitability.
- Provided key analytical support to the investment team by analyzing market trends and potential investment opportunities using Excel functions and SQL queries, resulting in a 25% improvement in investment decision accuracy.
- Assisted in the annual budgeting and quarterly forecasting processes by using streamlined budgeting tools, contributing to a reduction in budget variances through historical data leading to accurate resource allocation. Ensuring forecast models aligned with company's goals.
- Prepared and presented detailed financial reports using Power BI, improving transparency, and aiding in strategic decision-making processes.

PROJECT EXPERIENCE

Customer Churn Prediction, independent project **August 2024 - December 2024**

- Developed and fine-tuned 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.
- Processed and cleaned data by handling missing values, encoding categories, and engineering features to enhance high model accuracy.
- Developed 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**

- Developed and 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 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 and facilitated more effective negotiations.