**Niharika Amilineni**

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Information Systems Specialist with expertise in strong analytical, communication, and teamwork skills, and proven ability to quickly adapt to new environments. Eager to contribute to team success and further develop professional skills. Seeking to leverage my skills and experiences to contribute to innovative projects and make a meaningful impact.

**EDUCATION  
University of Illinois Chicago, Chicago, IL Aug 2023 – May 2025***Master of Science in Information systems   
Coursework: Advance DBMS, Data mining, Business Data Visualization, Statistics, Aws infrastructure, Project management***GITAM University, Visakhapatnam, India Aug 2019 - May 2023***Bachelor of Technology in Computer Science*

*Coursework: Machine Learning,*

**SKILLS**

* **Programming Languages**: C/C++, Python (focusing libraries like NumPy, pandas, matplotlib, seaborn, pyspark, scikit), Java, HTML, CSS,SQL
* **Software**: Workiva, Alteryx, SPSS, Tableau, Microsoft Office (Excel, Word, PowerPoint, Visio, Outlook),Rapid Miner, AWS sage maker, Jupyter notebook, Colab
* Project Management, Data analysis and interpretation, Budgeting and forecasting, scrum methodologies

## **EXPERIENCE**

**University of Chicago at Illinois**

*Graduate Hourly employee(HR and Finance)*  **February 2024 – Present**

* Coordinated personnel record management procedures that improved data retrieval speed; enabled the HR team to reduce response time 80% on average.
* Developed KPI dashboards that transformed data into actionable insights which informed budgetary decisions.
* Analyzed complex datasets from multiple sources, implementing VBA-driven automation to streamline workflows, enhance efficiency, and significantly reduce manual effort.
* Conduct thorough exploratory data analysis, identifying patterns and anomalies to enhance data integrity and support evidence-based HR strategies Streamlined HR data retrieval, reducing employee inquiry response time from five days to one day on average, enhancing operational efficiency.

**Deloitte, Hyderabad January 2022 - July 2023**

*Risk & Financial Advisory Analyst*

* Streamlined business operations through complex querying and application of data analytics techniques, leading to optimized workflow efficiencies that saved approximately 15 hours per week on routine tasks in global statutory reporting projects.
* Automated ESG reporting processes using Workiva's Wdesk and Wdata, resulting in a streamlined workflowthat cut reporting time by 40% and reduced manual errors by 30% through advanced SQL queries.
* Created Alteryx flowcharts to automate data cleaning and preprocessing to handle complex raw data.

**Indian Servers May 2021 - July 2021**

*Machine Learning Intern*

* Leveraged OpenCV for computer vision tasks, delivering tangible improvements in image processing efficiency and accuracy for client projects.
* Adapted swiftly to evolving project requirements, consistently delivering high-quality machine learning solutions through teamwork.
* Led an experimental project training an AI to play chess, successfully implementing game rules and achieving a 60% win rate against average players.

**PROJECTS**

**Traffic sign Recognition:**

* A Deep learning image recognition project built to identify 55 different road signs from a digital image input. It was developed using convolution neural networks in python involving libraries like TensorFlow, Keras.
* This model with an accuracy of 88% can improve road safety, assists smart vehicles, aids traffic. Future enhancements include real-time alerts and multi-language support.

**Credit Score prediction model**:

* A classification model mainly focusing on choosing the best model and improving its accuracy by tuning the hyperparameters.
* Data cleaning and pre-processing of the data was challenging given the data had many missing values, outliers and erroneous values.