**KRISHNA CHANDANA KATTEKOLA**

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**EDUCATION**

**Master of Science in Information Systems** **Aug 2023 - Present**

George Mason University, Fairfax, VA **GPA: 3.56**

**SKILLS**

**Programming Languages & Tools:** C, Java, Python, SQL, Jupyter Notebook, Git, Microsoft Excel

**Data Analysis, Visualization & Databases:** NumPy, Pandas, Matplotlib, Seaborn, Tableau, MySQL, Oracle

**Cloud & Network Technologies:** Google Cloud Platform (GCP), IAM, VPN, Cloud-Native Infrastructure, TCP/IP, UDP, Wireshark

**PROJECTS**

**Cloud-Native VPN Development Oct 2024**

* Implemented cloud-native VPN product, ensuring compliance with redundancy, and least-privilege principles.
* Utilized command-line Python to test and validate cloud-native traits and performance metrics. Conducted research on application security approaches and presented key insights to enhance security implementation.

**Machine Learning-Based House Rent Prediction Model Dec 2024**

* Built a predictive model using Linear Regression and K-Means clustering to estimate rental prices with accuracy of 85% and segment properties.
* Conducted EDA on data set with 2000+ records and created visualizations to uncover key pricing factors and insights.

**Data Loss Prevention Dec 2024**

* Implemented a cloud-based Data Loss Prevention (DLP) system within Google Workspace to enhance data security and compliance.
* The project successfully reduced data leakage risks by 40% by blocking unauthorized sharing attempts. Regular log monitoring and refinements improved performance by 25% over time.

**Employee Recognition System May 2024**

* Designed a Java-based application integrated with an Android app and SQL database for employee recognition and performance tracking used by team of 20 employees.
* Streamlined recognition workflows and enhanced employee engagement through real-time tracking and management.

**Predictive Analytics for Homelessness Dec 2023**

* Developed and evaluated machine learning models to predict homelessness trends with an accuracy of 78% based on socio-economic factors analyzing 25,000+ data points.
* Created interactive visualizations and conducted data analysis using Python in Jupyter Notebook.

**Zero Waste Management System Sep 2023**

* Developed a Java-based web application with Apache Tomcat hosting, enabling real-time search, filtering, and purchasing of about 100 products.
* Used Java Servlets for backend logic and MySQL for robust data storage and management and improved data retrieval performance by 20%.

**CERTIFICATIONS**

**Identity and Access Management (IAM) Simulation** |Tata Consultancy Services**Nov 2024**

* Completed a hands-on IAM simulation, gaining expertise in cybersecurity best practices and aligning security strategies with business objectives.

**VOLUNTEERING**

**Team Lead | Cloud Based Project | George Mason University Dec 2024**

* Led a team of 6 to develop a cloud-based DLP system for Google Workspace using Agile methodology for efficient task management and timely delivery.

**Event Coordinator | Yoga Club April 2023**

* Led the planning and execution of multiple campus-wide events, including the successful International Yoga Day, resulting in a significant increase in student participation and wellness engagement.