

AISHWARYA CHANDRASHEKARA

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EDUCATION

Pace University

Master of Science (MS) in Information Systems

New York, NY

Sept. 2023 – May 2025

Global Academy of Technology

Bachelor of Science (BE) in Electronics and Communication

Bengaluru, India

June. 2018 – June 2022

EXPERIENCE

Data Analysis Intern

Alpha Tech Academy

Feb. 2023 – July 2023

Bengaluru, India

- Conducted survey analytics to enhance training engagement, resulted in a 25% increase in participant satisfaction.
- Optimized program resources through cross-functional collaboration, improving resource utilization by 30%.
- Developed data visualization tools to enhance stakeholder engagement with data insights, leading to more informed strategic decisions.

Data Quality and Process Improvement Intern

Bosch Ltd.

Sept. 2021 – Oct. 2021

Bengaluru, India

- Collaborated with senior engineers to analyze product testing data, identifying trends and insights that contributed to a 95% defect reduction rate through data-driven quality control strategies.
- Implemented Lean principles, such as Kanban, to optimize operational workflows, leveraging data analysis to improve efficiency by 25% and enhance productivity.
- Developed and executed data-driven quality improvement initiatives, using statistical methods to identify bottlenecks and implement corrective actions, resulting in significant enhancements to product reliability and process efficiency.
- Utilized data visualization tools to present complex quality metrics to stakeholders, facilitating informed decision-making and strategic planning.
- Conducted root cause analysis on quality issues, applying machine learning techniques to predict and prevent future defects, improving overall product quality.
- Contributed to the development of predictive models to forecast quality trends, enabling proactive measures to maintain high standards of product reliability.

PROJECTS

Quantum Decryption of Blockchain Hashes |

Quantum Computing, Blockchain Technology, Post-Quantum Cryptography, IBM Qiskit Jan. 2025 – Present

- Assessed Quantum Threats: Investigated how quantum algorithms like Shor's and Grover's threaten blockchain cryptography (SHA-256, ECDSA)..
- Post-Quantum Solutions: Explored lattice-based cryptography, Hash-based signatures, and Quantum Key Distribution (QKD) as potential safeguards.
- Blockchain Vulnerability Analysis: Conducted a thorough literature review and simulations using IBM Qiskit to model quantum attacks.
- Strategic Recommendations: Developed practical strategies for implementing quantum-resistant algorithms to secure blockchain systems.

Energy Demand Forecasting with LSTM Model |

Python, Deep Learning, Data Visualization, Feature Engineering

Jan. 2024 – May 2024

- Engineered temporal/lag features and weather variables for accuracy
- Built 2-layer LSTM with dropout, Adam optimizer, early stopping.
- Evaluated via MSE metrics; visualized predictions vs actuals.
- Identified key drivers (time patterns, weather) affecting demand.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R

Data Visualization Tools: Tableau, Power BI, Looker, Advanced MS Excel (Pivot Tables, VLOOKUP)

Developer Tools: Jira, Git/Stash, Google Cloud Platform, AWS, VS Code, Visual Studio, PyCharm, Eclipse

Libraries: pandas, NumPy, Matplotlib