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WORK EXPERIENCE

September 2023 – June 2025
IBM India
Data Engineer

- Collaborated with cross-functional teams to understand data requirements, optimize data storage and retrieval processes, implement data integration solutions and ensure data quality and reliability across various platforms and technologies used within IBM's ecosystem.
- Proficient in Unix Shell Scripting and SQL, with hands-on experience in Netezza and DashDB. Skilled in workflow orchestration using Airflow and Crontab, and have enhanced automation capabilities by developing Python scripts for test automation.

EDUCATION

2025 – 2029   Doctoral Program in Management
(Operations Management and Quantitative Techniques)
Indian Institute of Management, Indore

- Pursuing advanced coursework in operations research, supply chain management, inventory theory, and mathematical modeling under expert faculty guidance with a focus on practical applications and real-world problem-solving skills.
- This advanced training enables me to develop expertise in optimizing complex systems and making data-driven decisions. Involved in research areas with opportunities for industry consulting projects.

2023 – 2025   M.S. in Data Science and Management
Indian Institute of Technology, Indore
Indian Institute of Management, Indore

- The program provided a blend with principles of data science and management which equipped us with analytical skills and strategic decision-making capabilities.
- The program encompasses coursework in data mining, machine learning, statistical analysis, business intelligence and management principles.

2019 – 2023   B.Tech. in Electronics and Communication Engineering
Haldia Institute of Technology, Haldia

- The course offered comprehensive theoretical and practical knowledge in network analysis, signal processing and related fields.
- The program equipped us with the skills to design, analyze and troubleshoot electronic circuits, communication networks and digital systems.

2016 – 2018   Higher Secondary
Himalayan Public School, Patna

2016   Secondary
South Point High School, Kolkata

SKILLS

Scripting	Python, Unix Shell, Pandas, Numpy
Data Querying & Warehousing	SQL, Hive, Netezza, Snowflake, DashDB
Cloud Platform	AWS (S3, EC2)
Orchestration & ETL	DBT, Apache Airflow, Apache Beam
Data Visualization	PyDash, PowerBI, Cognos

ADDITIONAL INFORMATION

Certifications IBM Big Data, Techademy IBM Java Full Stack Developer

Interests   Stock Analysis, Business Strategy Analysis

PROJECTS

Data Engineering Concepts - Implementing Data Pipelines in Upatto
Indian Statistical Institute, Kolkata

- Engineered a scalable data processing pipeline using Apache Beam (Python and YAML) to impute missing values, standardize date formats and generate conditional remarks on healthcare data.
- Designed and implemented custom functions for complex transformations, enabling efficient distributed processing while maintaining high data quality, consistency and integrity across large volumes of structured data.

Efficiency of Banking Firms in India using Data Envelopment Analysis
Indian Institute of Management, Indore

- Microfinance institutions offer high-yield margins due to elevated interest rates on small-ticket loans, enhancing profitability; however, this comes with elevated credit risk, often leading to higher NPAs and cash flow volatility.
- While microfinance expands financial inclusion and boosts short-term returns, rising NPAs strain balance sheets, affecting capital adequacy and potentially diminishing shareholder value if asset quality and recovery mechanisms are not effectively managed.