



# AISHWARY JOSHI

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## Education

### University of Illinois Urbana-Champaign

Aug 2024 – May 2025

*MS in Business Analytics*

- Relevant Coursework: Big Data Analytics in Finance, Applied Financial Econometrics, Data Science & Python for Finance, Enterprise Database Management, Business Intelligence, Data Storytelling, Business Practicum

### BITS Pilani

Aug 2014 – Jul 2019

*BE (Hons.) in Mechanical Engineering, MSc (Hons.) in Biological Sciences*

- Relevant Coursework: Probability and Statistics, Computer Programming, Computer Aided Design

## Experience

### Cloudcraftz

Nov 2023 – Aug 2024

*Data Engineer*

- Transformed data for a multinational investment bank using GCP services; created trade analytics dashboards, scaled data storage, and implemented distributed data processing. Optimized storage through partitioning and clustering for efficient processing and improved price optimization by leveraging data lakes over data warehouses.
- Technologies Used: GCP BigQuery, Google Cloud Storage, Dataproc, Looker, Qlik, PySpark, HDFS.

### Indigg

Jul 2023 – Oct 2023

*Data Engineer*

- Developed and maintained ETL pipelines from various sources to an S3 bucket, leveraging big data systems.
- Implemented cloud infrastructure code to deploy data engineering solutions on AWS seamlessly.
- Technologies Used: DynamoDB, AWS Athena, AWS S3, AWS Lambda, AWS EMR, PySpark, Docker, Apache Iceberg, Superset, AWS IAM.

### Smartstaff

Mar 2022 – Nov 2022

*Senior Business Analyst*

- Built and maintained data pipelines from various sources to the firm's data warehouse (AWS Redshift).
- Led and collaborated with different teams to create data-rich dashboards for product, operations, marketing, and customer success teams.
- Quantified qualitative measures to understand skills and behavior, solving business problems such as attrition, hiring, and feedback mechanisms, resulting in a 40% revenue surge and business expansion.
- Interacted with clients to address customized data requirements, successfully onboarding five contracts with a year of prior commitment.
- Automated email triggers for insights derived from data using Google Apps Script.
- Technologies Used: AWS EC2, S3, Redshift, BigQuery, AWS Lambda, RDS, Freshworks, Mixpanel.

### Morgan Stanley

Nov 2021 – Mar 2022

*Analyst*

- Automated operational risk data monitoring reports, executed the firm's Global Risk & Control Self-Assessment (RCSA) Program, and compared results to operational risk incidents, scenario analyses, issues, and actions.
- Technologies Used: Python, MS SQL Server, Qlik.

### Credit Suisse

Jul 2019 – Nov 2021

*Exempt Non-Officer*

- Reported operational, regulatory, conduct, and control metrics for the Operational Risk & Controls committee. Conducted controls committee meetings, presenting inputs from various business COO heads.
- Migrated data from Oracle and Postgres databases to HDFS using Sqoop, ran HIVE queries on HDFS tables, and visualized data using Tableau. The reporting saved approximately 500 FTE hours annually.
- Mentored and supervised roles and responsibilities for three newly onboarded FTEs.
- Led and participated in CSR activities, including beach cleaning, classroom construction, educating underprivileged students, and painting school walls.
- Technologies Used: Tableau, PowerBI, MS SQL Server, HDFS, HIVE, PowerPoint.

*Intern*

- Created robust, scalable, outcome-driven experimentation opportunities for business divisions to discover digital technology solutions for their needs.
- Prepared fact sheets, pitch books, and automated reports for macro, credit, and equity-based products for CAO/COO/SRM in Global Markets Asia (Singapore and Hong Kong divisions).

**GGK Technologies****Jul 2018 – Nov 2018***Intern*

- Developed a framework using Python for insightful analysis of restaurant chain sales data, enabling RCA of sales metrics, and integrating analytical dashboards into the company's website.
- Designed wireframes for a healthcare and pharmaceutical company's website, highlighting product range and R&D capabilities.
- Technologies Used: Jupyter, Databases, PowerPoint.

**Research Projects**

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**Data Engineering Project: Video Game Sales and Steam Traffic Analysis**

- Leveraged Python, AWS Lambda, AWS Glue, AWS S3, and Bash scripting to process and transform large datasets from Kaggle, integrating data for correlation analysis and generating insightful visualizations.

**API with User Registration, Authentication, & Order Management**

- Developed an API using Node.js for user registration and authentication (JWT and Google Sign-In) with MongoDB integration. Built a basic React UI for login/signup and order details.

**ETL-Driven Gold Pricing**

- Created an API for historical price data and news, stored in S3. Used statistics and word clouds to analyze factors influencing gold prices and developed an algorithmic trading model.

**Technical Skills**

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**Languages:** Python, SQL, Terraform, TypeScript, Scala**Developer Tools:** VS Code, Git, Jupyter Notebook**Technologies/Frameworks:** MongoDB, Pandas, PySpark, Docker, AWS, GCP**Certifications**

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**Amazon Web Services:** AWS Certified Cloud Practitioner, AWS Cloud Quest**Udemy:** Master Data Engineering using GCP Data Analytics, Spark and Python for Big Data with PySpark, Microsoft Power BI Desktop for Business Intelligence (2023)