

# ARNAB MAHADANI

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## Education

### Birla Institute of Technology

*Bachelor of Technology in Chemical Engineering*

**Sep. 2023 – Present**

*Ranchi, Jharkhand*

### Chinmaya Vidyalaya

*Higher Secondary, Class: 11,12*

**2020 – 2022**

*Bokaro, Jharkhand*

## Technical Skills

**Programming Languages:** Python

**Database:** MySQL, PostgreSQL

**ML Frameworks:** PyTorch.

**Data Analysis and Visualization :**Pandas, NumPy, Matplotlib, Seaborn

**Data Visualization Tools:**Power BI

**Machine Learning Techniques:**Regression, Classification, Clustering

**Machine Learning Libraries:** Scikit-Learn

**Other Skills:** Decision-making, Teamwork, Communication, Data Cleaning and Mining.

## Relevant Coursework

- |                  |                       |                        |                         |
|------------------|-----------------------|------------------------|-------------------------|
| • Statistics     | • Database Management | • Problem Solving      | • Business Intelligence |
| • Advanced Excel | • GIT                 | • Predictive Modelling | • Predictive Analytics  |

## Projects

### Pizza Sales Data Analytics | *Excel, Power BI*

- Analyzed 45,000+ rows of sales data using SQL, reducing processing time by 60% by creating dashboard in Power BI.
- Applied data cleaning techniques and visualizations to build an interactive dashboard and gain actionable insights.
- Tracked weekly order trends, identifying peak sales hours and days to improve operational efficiency by 90%.

### Netflix Data Analysis | *Pandas, Matplotlib*

- Analyzed 10,000+ rows of data ,cleaned the dataset and visualized the watch patterns.
- Applied data cleaning techniques using pandas and visualizations using matplotlib to visualize and analyze the watch patterns , trends of different genres, compared shows watchtime hours.

### Exploratory Data Analysis |

**Ongoing**

- Explored customer churn patterns, focusing on various factors viz. payment methods, contract types, tenures and demographic attributes.
- Visualized trends over customer tenure, supporting the need for personalized retention strategies.

## Certifications

### Data Analytics and Visualization Job Simulation

*Forage Virtual Job Simulation Program, Accenture, North America*

## Position of Responsibility

### College Cultural Fest

*Organizer*

*Bit Mesra*

- Led a team of 10-20 volunteers to organize a college cultural fest attended by 300+ participants, ensuring smooth execution and timely completion of all events.

### IICHE Club

*Member*

*Bit Mesra*

- Participated in workshops, managed and handled the sessions, collaborated with team members to create basic visualizations.