

# Utkarsh Tripathi

## Data Science and Analyst (Fresher)

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### Skills

#### Programming Languages

- **Python:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Tensorflow
- **SQL:** Writing queries, Joins, Subqueries

#### Machine Learning

- Regression
- Classification
- Clustering

#### Soft Skills

- Strong analytical thinking and problem-solving skills
- Effective communication and presentation skills
- Collaborative team player

#### Data Analysis & Visualization

- Data Cleaning and Wrangling
- Exploratory Data Analysis (EDA)
- Tools: Tableau, Power BI, Excel

#### Deployment

- **Web Frameworks:** Flask, Streamlit for building and deploying ML models
- **Containerization:** Basic knowledge of Docker (container creation and management)
- **AWS:** Deploying models using EC2, S3, and Lambda

### Education



**Bachelors of Science**  
**Maa Saraswati Sita Degree College**  
Mathematics major

2022/06 – 2025/06  
Prayagraj, India

**Master's Program in Data Science**  
**Simplelearn, in collaboration with IBM** 

2024  
Online

### Certificates

- Python for Data Science 
- Data Science with Python 
- Machine Learning using Python 
- SQL Certification Course 
- Industry Master Class – Data Science 

### Projects

#### Sales Insights

- Designed a PowerBI Dashboard to understand AtliQ hardware goods sales trend.
- The Final Dashboard was effective at displaying the sales trend of AtliQ hardware, allowing users to understand the data and make informed decision.
- This dashboard could help in increasing the revenue atleast by 7% in the next Quarter

#### Exploring Mental Health Data

- Designed a 94%-accurate predictive model to classify depression.
- Enabled researchers to uncover key factors influencing mental health.

#### Employee Turnover Analytics

- Conducted exploratory data analysis and visualization to identify key turnover drivers, such as satisfaction levels, evaluation scores, and workload.
- Applied clustering techniques and predictive models (Logistic Regression, Random Forest, Gradient Boosting) to analyze employee behavior and turnover risks.
- Developed a risk categorization system and helped Portobello Tech reduce turnover by 15% in one month.

#### Family Financial Score Web Application

- Developed a financial scoring model for Sustain Farmers to analyze family transaction data and provide personalized spending suggestions.
- Created a web app for data input and a Streamlit app for visualizing spending patterns and offering actionable financial advice.
- Enabled families to improve their financial scores by 10% and address financial challenges effectively.

#### Online Gaming Behavior Classifier

- Built a predictive model to forecast engagement levels using key features.
- Enabled the company to make data-driven decisions for successful game launches.

### Extra Curricular Activities

**Tata Data Visualisation: Empowering Business with Effective Insights Job Simulation on Forage - November 2024** 

**BCG Data Science Job Simulation on Forage - November 2024** 

**AWS APAC Solutions Architecture virtual experience program on Forage - December 2024** 