Utkarsh Tripathi

Data Science and Analyst(Fresher)

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in LinkedIn

○ Github

kaggle Kaggle

EDUCATION

10th Standard,
Army Public School New Cantt
2019 – 2020 | Prayagraj, India
Standard Mathematics

12th Standard,
Dwarka Prasad Public School
2021 – 2022 | Prayagraj, India
PCM+Physical Education

Bachelors of Science,
Maa Saraswati Sita Degree College
June 2022 – June 2025
Prayagraj, India
Mathematics major

Master's Program in Data Science,
Simplilearn, in collaboration with
IBM ✐
2024 | Online

CERTIFICATES

- Python for Data Science ✐
- SQL Certification Course ✐
- Data Science with Python ✐
- 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

Employee Turnover Analytics ✐
- **Data Analysis & Visualization**: Used exploratory data analysis and visualization to identify key drivers of turnover like satisfaction levels, evaluation scores, and workload.
- **Clustering**: Applied clustering techniques to group employees who left based on satisfaction and evaluation to uncover behavioral patterns.
- **Machine Learning**: Developed and trained models (Logistic Regression, Random Forest, Gradient Boosting) to predict employee turnover with high accuracy.
- **Risk Classification**: Categorized employees into risk zones (Safe, Low-Risk, Medium-Risk, High-Risk) based on turnover probabilities.

Family Financial Score Web Application ✐
- **Financial Data Input**: Enabled users to input key financial details such as income, savings, expenses, loan payments, and credit card spending.
- **Score Calculation**: Built a scoring model based on savings-to-income, expenses-to-income, loan-to-income ratios, credit card spending, and discretionary spending.
- **Personalized Recommendations**: Provided targeted advice for improving financial stability based on calculated scores.
- **Data Persistence**: Stored financial data and scores in an Excel file for future reference.
- **User Interface**: Created an intuitive, responsive interface using Bootstrap for data input and viewing.
- **Streamlit Integration**: Developed a Streamlit app to visualize stored financial data and simulate changes in spending to improve financial health.

Online Gaming Behavior Classifier ✐
- Developed a predictive model to forecast engagement levels based on specific features.

EXTRA CURRICULAR ACTIVITIES

Tata Data Visualisation: Empowering Business with Effective Insights Job Simulation on Forage - November 2024 ✐
- Completed a simulation involving creating data visualizations for Tata Consultancy Services
- Prepared questions for a meeting with client senior leadership
- Created visuals for data analysis to help executives with effective decision making
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BCG Data Science Job Simulation on Forage - November 2024 ✐
- Completed a customer churn analysis simulation for XYZ Analytics, demonstrating advanced data analytics skills, identifying essential client data and outlining a strategic investigation approach.

SKILLS

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

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

Machine Learning
- Regression
- Classification
- Clustering

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

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

- Conducted efficient data analysis using Python, including Pandas and NumPy. Employed data visualization techniques for insightful trend interpretation.
- Completed the engineering and optimization of a random forest model, achieving an 85% accuracy rate in predicting customer churn.
- Completed a concise executive summary for the Associate Director, delivering actionable insights for informed decision-making based on the analysis.

AWS APAC Solutions Architecture virtual experience program on Forage - December 2024 🔗
- Designed and simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.
- Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it.