

# AYUSH

## Data Science Intern

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### Profile

A dynamic and dedicated Data Science enthusiast with a solid foundation in machine learning, deep learning, and statistical analysis. I excel at uncovering patterns in data and transforming complex challenges into actionable insights, driving impactful solutions. Proficient in handling large datasets and developing predictive models, I continuously learn new techniques to stay at the forefront of the data landscape. As a proactive team player with strong communication and collaboration skills, I am committed to contributing innovative perspectives and making a meaningful impact through data-driven decision-making.

### Education

THAPAR UNIVERSITY  2023 – 2027  
B.TECH CSE

### Technical Skills

#### Practical Skills

- Programming language: C++, Python, MATLAB, R.
- Data Science and ML: Pandas, NumPy, SciPy, Scikit learn, TensorFlow, Keras
- Data Visualisation: Matplotlib, Seaborn
- NLP: NLTK, SPaCy
- Database: MySQL, MongoDB
- Tools: Git and Github, Hadoop and distributed systems(basics)

#### Related CourseWork

Mathematics  
Statistics and Probability  
Database Management System  
Data Structures and Algorithms  
Cognitive Computing  
Artificial Intelligence

### Soft Skills

Problem-Solving and Analytical Thinking	Business Communication and Storytelling
Collaboration and Teamwork	Time Management
Adaptability and Continuous Learning	Critical Thinking

### Projects

#### Predictive Model for Diamond Price prediction

- Built a **regression-based machine learning model** to predict diamond prices based on key attributes (carat, cut, color, clarity).
- Conducted **exploratory data analysis (EDA)** and **feature engineering** to improve model accuracy.
- Developed data pipeline for data preprocessing, which includes imputing, encoding, and Scaling of data.
- **Tools Used:** Python, Pandas, NumPy, Scikit-learn, Matplotlib

#### Headline Generation and Summarization of News Articles

In progress

- **Objective:** Build a system to generate headlines and summaries for news articles.
- **Dataset:** News articles (e.g., from CNN, BBC).
- **Tasks:** Preprocess the dataset and apply LSTM for text summarization.
- **Fine-tune** a model like T5 or BART for headline generation. Evaluate results using ROUGE and BLEU scores.

## Professional Experience

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### Data Science Virtual Experience | BCG (Forage) [🔗](#)

- Conducted **exploratory data analysis (EDA)** to identify churn from customer data.
- Applied **feature engineering techniques** to improve predictive modeling and enhance overall data quality.
- Developed a **hypothesis-driven approach** for business problem-solving.
- Presented **data-driven recommendations** to simulate stakeholder decision-making.
- **Tools Used:** Python, Pandas, Scikit-learn, SQL