

Ayush Uttarwar

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SUMMARY

I'm a final year B.Tech student studying AI and Data Science. I'm really interested in using my skills to solve real-world problems. I have a good grasp of Data Structures and Machine Learning, and I've been working on projects related to **Data Science** and Generative AI. I'm looking for a chance to learn gain some industry experience, and contribute to a team and get exposure to the industry.

TECHNICAL SKILLS

Programming Languages: C++, JavaScript, **Python**

ML/DS: scikit-learn, NumPy, Pandas, XGBoost, Plotly

Data Visualization: **Power BI**, Matplotlib **Tableau**, Seaborn

Tools: Git, GitHub, **MySQL**, Excel

PROJECTS

Duplicate Question Detection for Social Platforms

kaggle-url

NLP, Random Forest, XGBoost, CountVectorizer

- Cleaned and normalized large text datasets by removing HTML tags, expanding contractions, etc.
- Engineered features including word counts, shared tokens, stop word ratios, and fuzzy similarity scores.
- Used CountVectorizer for representation and trained Random Forest & XGBoost classifiers for duplicate detection.

Customer Churn Analysis

PySpark, Plotly, Decision Trees

- Built a customer churn prediction pipeline using **PySpark** on a large telecom dataset with over 7,000 records.
- Conducted comprehensive exploratory data analysis (EDA) and visualization to uncover key drivers of churn.
- Engineered and preprocessed both numerical and categorical features, built and validated a decision tree model for churn prediction with **80% accuracy**.

AI-Powered Virtual Assistant

Python, Cohere, Selenium, Web Scraping

- Developed assistant with **voice recognition, automation, real-time search, and chatbot capabilities** using Python and Groq's LLM.
- **Implemented** speech-to-text, text-to-speech, image generation, and system automation for seamless user interaction.
- **Enhanced** response **accuracy by 25%** by integrating LLMs, real-time web scraping, and API-based query handling for dynamic, context-aware assistance.

EDUCATION

Vishwakarma Institute of Information Technology (CGPA: 8.37)

B. Tech - Artificial Intelligence and Data Science

The Jain International School (Grades: 80%)

H.S.C.

Pune, MH

2022 – Present

Aurangabad, MH

2020 – 2022

CERTIFICATIONS

- Python for Data Science, AI & Development – IBM (Coursera) – April 2025 **certificate**
- Microsoft Power BI Data Analyst – Microsoft (Coursera) – January 2025 **certificate**