Ayush Jha

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EDUCATION

Vellore Institute of Technology, Bhopal **09 2022 – 08 2026**
Bachelor of Technology - Computer Science and Engineering - ***CGPA - 7.64*** *Bhopal, Madhya Pradesh*

COURSEWORK / SKILLS

- Excel
- Python
- Statistics
- EDA
- Power BI
- MySQL
- Machine Learning
- OOPS

EXPERIENCE

Intern at PolTek Solutions **October 2024 - December 2024**
Role - Research Analyst *Remote*

- Conducted detailed data analysis to prepare comprehensive reports on political insights and strategies, aiding decision-making processes.
- Created clear and concise visualizations to present complex political data trends, ensuring insights were actionable and understandable.
- Effectively managed data collection, analysis, and reporting in a remote work setup.

PROJECTS

EstatePredict | Python, ML, NumPy, Pandas **March 2025**

- It utilizes Scikit-learn and Linear Regression on the Bangalore home prices dataset from Kaggle to build a machine learning model that accurately estimates property values by analyzing factors like location, square footage, number of rooms, amenities, and market trends. It incorporates data cleaning, outlier detection, feature engineering, dimensionality reduction, GridSearchCV for hyperparameter tuning, and K-Fold cross-validation to enhance accuracy,.

IPL-WinAI | Python, ML, NumPy, Pandas **March 2025**

- IPL-WinAI is a ball-by-ball IPL win probability model that estimates the likelihood of the batting side winning at any moment using engineered game-state features and categorical context from historical matches, updated in near real time during a chase. It combines current match state (runs left, balls left, wickets, current/required run rate) with one-hot encoded team and city information in a streamlined logistic regression pipeline to output calibrated probabilities.

Election Analytics Dashboard | NumPy, Pandas, Plotly **October 2025**

- This project builds a unified, data-driven election analysis platform that harnesses multi-layered electoral datasets to derive meaningful political and demographic insights. The system follows the classical structure of analytical applications, beginning with meticulous data engineering and cleaning, followed by structured exploratory study of voting patterns, party performance, turnout variations, and constituency-level dynamics.

TECHNICAL SKILLS

Languages: Python, C++, SQL
Technologies/Frameworks: NumPy, pandas, Matplotlib, seaborn, scikit-learn
Developer Tools: VS Code, PyCharm, Canva, GitHub

CERTIFICATIONS

- Data Science and AI Masters 2025 - From Python to Gen AI - udemy
- Data Analytics Masters 2025 - From Basics to Advanced - udemy
- Introduction to Computer Vision and Image Processing - coursera

EXTRACURRICULAR

- Wrote many articles on Medium.com
- Participated in various competitions