Akash Jha

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GitHub: github.com/akashjha40/mydataprojects

EDUCATION

Pacific Institute of Technology, Udaipur — Udaipur, India
B.Tech (Computer Science with AI & ML); **CGPA: 8.7** — **2022 – 2026**

Class XII (Rajasthan Board) — Abu Road, Rajasthan
Higher Secondary; **Score: 61%**

Class X (CBSE) — Dholpur, Rajasthan
Secondary School; **Score: 9.0 CGPA**

SKILLS SUMMARY

- **Languages:** Python, SQL
- **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Statsmodels, Streamlit
- **Tools:** Power BI, MS Excel, PowerPoint, MySQL, GitHub
- **Platforms:** Jupyter Notebook, Google Colab, Visual Studio Code
- **Technical Skills:** EDA, Feature Engineering, Data Cleaning, Statistical Inference, Supervised & Unsupervised Learning, Model Evaluation, Hyperparameter Tuning, PCA
- **Soft Skills:** Excellent Communication, Problem-solving, Public Speaking, Fluent in English & Hindi

PROJECTS

Stock Price Prediction of AAPL stocks — **November 2025**
- Designed and implemented an end-to-end machine learning pipeline for time-series forecasting of Apple Inc. (AAPL) stock prices using historical market data.
- Performed data ingestion, cleaning, feature engineering (lag features, rolling statistics), and exploratory data analysis to capture market trends.

Customer Behaviour Analysis With Python | SQL | Power Bi — **Dec 2025**
- Performed data cleaning, validation, and exploratory data analysis using Python to identify customer trends and patterns.
- Used SQL queries to analyze customer behavior and extract key business insights. Built an interactive Power BI dashboard with visualizations and KPIs to support data-driven decision-making.

National Survey of Children's Health (NSCH) Dataset Analysis — **April 2025**
- Explored the impact of bullying, sleep, and parental mental health on children's mental well-being using the official NSCH dataset.
- Applied statistical methods including probability, relative risk, and odds ratios using Python, Pandas, and Numpy.
- Results aimed to advocate factors affecting mental health in children.

Detecting Chronic Heart Disease in Suspected Patients — **February 2025**
- Built a supervised machine learning classification pipeline for early detection of Chronic Heart Disease (CHD) using clinical and demographic features.
- Implemented Random Forest classifiers with SMOTE-based class imbalance handling for minority-class robustness.
- Achieved **0.95 AUC score** and **88% Accuracy** ab% FNR.

Unsupervised Learning Clustering Model for NGO — **August 2025**
- Designed an unsupervised ML workflow to cluster countries based on socio-economic and health indicators (GDP, mortality).
- Delivered insights through visual analytics to enable actionable policy recommendations.

CERTIFICATES

Certifications
- Data Science and Analytics (UpGrad)
- Artificial Intelligence and Machine Learning (UpGrad and Golden Gate University SF)