AYUSH BHATT

Data Science Intern | Applied Machine Learning Intern

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SUMMARY

CS undergraduate focused on **Data Science and Machine Learning**, with a strong learn-by-building mindset. Currently deepening ML fundamentals through books, research paper implementations, and deployed projects on real datasets.

EDUCATION

Bachelor of Technology in Computer Science and Engineering	*Nov 2022 -Present*
Dr. A.P.J Abdul Kalam Technical University, Lucknow	*SGPA : 7.8/10*
Intermediate :	*Jul 2021 - Apr 2022*
Evergreen Senior Secondary School, Haldwani	*Percentage : 72%*
Matriculation :	*Jul 2019 - Apr 2020*
Evergreen Senior Secondary School, Haldwani	*Percentage : 80%*

SKILLS

Programming Language: Python, SQL(foundational), C,C++
Libraries & Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch (hands-on)
Database: MySQL, PostgreSQL
Dev Tools/Platforms : VS Code, Spyder, Git/GitHub, Google-Colab, Jupyter Notebook, Kaggle
Coursework: Data Structure, Operating System, OOP, DBMS, Design and Analysis of Algorithms
Core Skills: Exploratory Data Analysis (EDA), Data Cleaning & Preprocessing, Feature Engineering(foundational), Model Training & Evaluation, Hyperparameter Tuning(introductory), Cross-Validation.

PROJECTS

Feature Engineering Sandbox (ML Preprocessing Playground) (*Demo* , *Github*)   Jan 2026
Tech Stack : Python | Pandas | NumPy | Scikit-learn | Streamlit | Matplotlib/Plotly
- Developed a Streamlit-based sandbox to test **feature engineering and preprocessing strategies** and compare their impact on ML model performance.
- Implemented modules for **imputation, encoding, scaling, and transformations** with pipeline-style experimentation.
- Built reusable preprocessing workflows using **scikit-learn Pipelines and ColumnTransformer**.

Loan-Dash-X (Loan Approval Probability Predictor) (*Demo* , *Github*)   Sept 2025
Tech Stack: Python | Pandas | NumPy | Scikit-learn | Streamlit | Matplotlib/Plotly | Render
- Built a Streamlit-based ML application that predicts **loan approval probability** from user-entered applicant features.
- Built **preprocessing + trained model inference pipeline to generate real-time probability** outputs.
- Deployed the application on Render for public access and easy testing.
- Evaluated classification performance using **Accuracy, F1-score, and ROC-AUC**.

Valora (Property Valuation & Price Prediction) (*Demo* , *Github*)   Sept 2025
Tech Stack: Python | Pandas | NumPy | Scikit-learn | Streamlit | Matplotlib/Plotly | Render
- Developed a Streamlit property valuation app for **real-time and bulk price prediction using ML regression.**
- Included market summaries, **feature insights, and top property picks** to support decision-making.
- Performed data preprocessing and feature preparation using **Pandas/SQL-style operations**.
- Measured regression performance using **MAE / RMSE / R^2**.

EXTRA-CURRICULAR ACTIVITIES

- Consistently document and share **research-backed ML insights** on **X (Twitter)**, including experiments, implementations, and project takeaways.
- Built an **end-to-end ML project** as part of a **project-based virtual internship (Pinnacle Labs)**.
- Maintain a **personal ML knowledge base** with **research-backed notes from books/papers**, along with implementation insights and experiments.
- Currently exploring Computer Vision and modern deep learning models, with a focus on how architectures evolved over time.

RESEARCH & LEARNING INTERESTS

- Enjoy reading ML research papers deeply and understanding how architectures and ideas evolved, then validating them through implementation and real dataset experiments.
- Exploring core AI foundations with growing interest in robotics-oriented learning (perception and decision-making).