

Swayam Burde

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EDUCATION

VIT Bhopal University <i>B.Tech in CSE(Specialization in AI-ML)</i>	Bhopal, India Aug 2023 – Jun 2027
Mount Litera Zee School <i>Senior Secondary Education (CBSE, Class XI-XII)</i>	Nagpur, India Apr 2020 – Mar 2022

TECHNICAL SKILLS

- Programming Languages:** Python, C++, JAVA, SQL
- Deep Learning Frameworks:** TensorFlow, PyTorch, Keras
- Libraries & Tools:** NumPy, Pandas, Scikit-learn, OpenCV, Git
- Coursework:** Data Structures and Algorithm, OOPS, Operating System, DBMS, Computer Networks, Machine Learning

PROJECTS

Student Performance Predictor <i>Machine Learning Project</i>	Jul 2025 <i>Python, Pandas, Scikit-learn, Flask</i>
<ul style="list-style-type: none">• Spearheaded an end-to-end machine learning project to predict student academic performance using demographic, behavioral, and academic history data with comprehensive exploratory data analysis and feature engineering.• Performed extensive data preprocessing, statistical correlation analysis, and missing value treatment on educational datasets, implementing feature selection techniques to optimize model performance and prediction accuracy.• Developed and benchmarked six classification algorithms (Linear Regression, Decision Trees, Random Forest, SVM, XGBoost, Gradient Boost), utilizing cross-validation and performance metrics including RMSE, R², and accuracy scores for model evaluation.• Analyzed feature importance rankings to identify key predictors of academic success, providing actionable insights into factors influencing student performance for educational stakeholders and administrators.• Engineered a Flask-based web application with interactive user interface for real-time academic performance predictions, successfully deploying the complete system for live user input and instant forecasting capabilities.	
Real Estate Price Predictor <i>Machine Learning Project</i>	Aug 2025 – Sep 2025 <i>Python, Pandas, Scikit-learn, Flask, Render</i>
<ul style="list-style-type: none">• Built a comprehensive machine learning solution for real estate price prediction in Ames, Iowa, leveraging historical housing data and property characteristics to deliver accurate valuation estimates through advanced regression modeling techniques.• Executed thorough data preprocessing and exploratory analysis on real estate datasets, applying feature transformation techniques and statistical analysis to enhance data quality and model reliability for property valuation applications.• Constructed and evaluated multiple regression algorithms using scikit-learn framework, implementing model validation strategies and performance assessment metrics to ensure optimal prediction accuracy and robust model selection.• Designed an interactive Flask web application featuring a 7-step property input form with responsive Tailwind CSS interface, enabling seamless user experience for real-time housing price estimation and market analysis capabilities.• Deployed production-ready application on Render platform with automated CI/CD workflows, establishing modular codebase architecture with comprehensive error handling and logging infrastructure for scalable cloud-based prediction services.	