

Arpit Gupta

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Education

VIT Bhopal University

BTech Cumulative GPA: 8.49/10

Bhopal, Madhya Pradesh

12th Standard

DL Dav Model School

CBSE Percentage: 84.9/100

Delhi

Jul 2022

10th Standard

DL DAV Model School

CBSE Percentage: 89.4/100

Delhi

Jul 2020

Projects

House Price Prediction Using Machine Learning

Sep 2024 – Dec 2024

- Developed a machine learning model using Linear Regression, Random Forest, XGBoost to accurately predict house prices, demonstrating expertise in regression analysis.
- Compare performance using metrics like RMSE (Root Mean Square Error), MAE (Mean Absolute Error), and R-squared.
- Implemented end-to-end data preprocessing and feature engineering techniques, including handling missing values, outlier detection, and creating new features, to optimize model performance.

Chest X-Ray Medical Diagnosis Using Deep Learning

Jan 2025 – Apr 2025

- Designed and trained a deep convolutional neural network (CNN) using PyTorch, OpenCV for the automated diagnosis of medical conditions from chest X-ray images.
- Applied advanced image preprocessing and transfer learning techniques (fine-tuning pre-trained models like ResNet-18) to overcome data limitations and improve model generalization.
- Trained using Loss function: Cross-Entropy Loss (suitable for multi-class classification) and optimized using Adam Optimizer (for adaptive learning rate adjustment).

Certification

Oracle Certified Java Foundations Associate

Apr 2025 – July 2025

- Validated foundational proficiency in core Java programming concepts, including Object-Oriented Programming (OOP) principles, data structures, and control flow.
- Demonstrated understanding of Java syntax, basic application development, and error handling, essential for entry-level software development roles.

IBM Certified Cyber Security Analyst

Apr 2025 – June 2025

- Certified in comprehensive cybersecurity analysis methodologies, covering threat intelligence, vulnerability management, and risk assessment.
- Gained practical knowledge in security operations, incident response, and SIEM tool concepts, relevant for defending against modern cyber threats.

The Bits and Bytes of Computer Networking

Sep 2024 – Nov 2024

- Acquired foundational knowledge in computer networking principles, including TCP/IP, DNS, routing, and common networking protocols.
- Developed understanding of network infrastructure, troubleshooting techniques, and network services, essential for IT support and system administration roles.

ADDITIONAL

Technical Skills: Python, Java, Web Development, SQL

Languages: Hindi, English; Basics of Spanish